ANNOTATED TAXONOMIC CHECKLIST OF THE LEPIDOPTERA OF NORTH AMERICA, NORTH OF MEXICO

edited by

Gregory R. Pohl and Stephen R. Nanz

NOTE: The text of this document is exactly as published in 2023. However, it has embedded comments that describe a number of corrections detailed in the errata:

- Pohl, G.R. & Nanz, S.R. 2025. Corrections to the 2023 “Annotated Taxonomic Checklist of the Lepidoptera of North America, North of Mexico”. Journal of the Lepidopterists’ Society 79(2): 104-116. https://doi.org/10.18473/lepi.79i2.a4

Small yellow text balloons indicate locations of corrections and omissions; click on a balloon to see a comment with details of the correction. For example, there are 2 correction balloons in the abstract, page ‘i’.

Todd Gilligan - Managing Editor

THE WEDGE ENTOMOLOGICAL RESEARCH FOUNDATION

ANNOTATED TAXONOMIC CHECKLIST OF THE LEPIDOPTERA OF NORTH AMERICA, NORTH OF MEXICO

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Back cover illustration: *Carmenta bassiformis* (Walker) in Brooklyn, New York; photographed by Steve Nanz.

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Individual family sections may be cited by the family authors, as chapters in the overall work.

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The Board of Directors of the Wedge Entomological Research Foundation is sincerely grateful to the late

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of Mt. Salus, Mississippi who very generously bequeathed money to enable the Foundation to continue its research and publication programs.

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Fascicle 20.2B **Bombycoidea**, Saturniidae (conclusion) • 28 April 1972
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Fascicle 13.1B **Pyraloidea**, Pyralidae (part) • 11 December 1972
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Fascicle 15.5 **Pyraloidea**, Pyralidae (part) • 16 December 2003
Fascicle 27.1 **Noctuoidea**, Noctuidae (part) • 22 December 2004
Fascicle 17.2 **Geometroidea**, Geometridae (part) • 30 December 2008
Fascicle 26.9 **Noctuoidea**, Noctuidae (part) • 9 October 2009
Fascicle 8.1 **Tortricoidea**, Tortricidae (part) • 10 June 2012
Fascicle 9.4 **Tortricoidea**, Olethretinae (part) • 30 April 2015
Fascicle 9.5 **Tortricoidea**, Olethretinae (part) • 1 June 2017
Fascicle 22.1A **Drepanoidea**, Doidae, **Noctuoidea**, Notodontidae (part) • 21 December 2018
Fascicle 25.4 **Noctuoidea**, Noctuidae (part) • 18 February 2020
Fascicle 22.1B **Noctuoidea**, Notodontidae (conclusion) • 30 December 2021
Check List of the Lepidoptera of America North of Mexico • 30 May 1983
The Hawk Moths of North America • 26 December 2007

Dedicated to Ronald W. Hodges and Robert M. Patterson

ABSTRACT

All the described butterfly and moth (Lepidoptera) species that are known to occur in Canada, Greenland, and the continental United States of America are listed. Information is included from all publications up to the end of December 2022, as well as from a few publications that were in the late stages of preparation at that time. All valid scientific names, from order to subspecies, are presented following the most recent available classification. For all species-level names, the current genus, species name, author, date, and original genus are listed. All available (and many unavailable) synonyms are listed, as well as hundreds of misspellings, emendations, misidentifications, and misapplied names published in the past century. In total, over 36,700 taxon names are included in the list.

A total of 13,084 species are reported, including one extinct species, one probably extinct species, 12 extirpated species, 151 strays, and 30 unverified records. An additional 192 excluded species that have been reported in error from North America are noted, as well as 26 nomina dubia. A phylogenetic numbering system is employed for all valid species, and “MONA” Numbers from the previous checklist are also included. A total of 295 species are reported as introduced and 12 more are possibly introduced; 310 species are Holarctic, 9 more are possibly Holarctic, and another 55 species are either Holarctic or introduced. Brief synopses of the 93 families reported from North America are given, and over 1,600 references are cited, covering the vast majority of relevant taxonomic revisions pertaining to the North American Lepidoptera fauna. More than 2,000 taxon notes provide information on introduced species, misidentifications, erroneous records, details of recent additions, and details of recent taxonomic changes and differing interpretations. The index lists all scientific names of Lepidoptera mentioned in the list.

A total of 81 NEW COMBINATIONS, 3 NEW STATUSES, 9 REVIVED COMBINATIONS, 22 REVIVED STATUSES, 61 NEW SYNONYMIES, and 7 REVISED SYNONYMIES are designated.

“In nature’s infinite book of secrecy, a little I can read.”

- William Shakespeare
(Antony and Cleopatra)

LIST OF NEW TAXONOMIC ACTS

New Combinations

TISCHERIIDAE
23a0016 Astrotischeria melantheranella (Heppner, 2010) (from Tischeria)

GRACILLARIIDAE
33a0108 Micrurapteryx thermopsella (Chambers, 1875) (from Parectopa)
33a0120 [Ornixolinae – No Genus] quinquistrigella (Chambers, 1875) (from Acrocercops)
33a0148 Aristaea pennsylvaniella (Engel, 1907) (from Parectopa)
33a0411 Cryptolectica affinis (Braun, 1918) (from Acrocercops)
33a0412 Cryptolectica insulariella (Opler, 1971) (from Acrocercops)
33a0413 Cryptolectica strigosa (Braun, 1914) (from Acrocercops)
33a0414 Dialectica cordiella (Busck, 1934) (from Acrocercops)
33a0418 Gibbovalva leptodesma (Meyrick, 1928) (from Marmara)

PLUTELLIDAE
36a0184 Rhigognostis aleutianella (Beutenmüller, 1889) (from Ypsolopha)

TORTRICIDAE
51a0632.2 Argyroploce exaridanus (Kuznetzov, 1991) (from Olethreutes)

GELECHIIDAE
59a0459 Aproaerema adversa (Braun, 1930) (from Syncopacma)
59a0460 Aproaerema crotolariella Busck, 1900 (from Syncopacma)
59a0461 Aproaerema metadesma (Meyrick, 1927) (from Syncopacma)
59a0629.1 Monochroa plutella (Chambers, 1874) (from Megacraspedus)

PTEROPHORIDAE
63a0086.1 Hellinsia brucei (Fernald, 1898) (from Oidaematophorus)
63a0107.5 Hellinsia poulini (Bigot, 2021) (from Oidaematophorus)
63a0108.1 Hellinsia catalinae (Grinnell, 1908) (from Oidaematophorus)

CRAMBIDAE
80a0924 Diastictis baccatalis (Hulst, 1892) (from Samea)
80a1047 Sathria rufescens (Hampson, 1912) (from Omiodes)
80a1102 Cangetta violescentalis (Hampson, 1895) (from Deuterophysa)
80a1397 Prionapteryx santella (Kearfott, 1908) (from Surattha)
80a1398 Prionapteryx indentella (Kearfott, 1908) (from Surattha)

GEOMETRIDAE
91a0150 Martania grandis (Hulst, 1896) (from Perizoma)
91a0151 Martania alaskae (Hulst, 1896) (from Perizoma)
91a0311 Eupithecia inferior (Hulst, 1896) (from Nasusina)
91a0312 Eupithecia vallis (Ferris, 2004) (from Nasusina)
91a0315 Eupithecia minuta (Hulst, 1896) (from Nasusina)
91a0318 Eupithecia discoidalis (Grossbeck, 1908) (from Prorella)
91a0319 Eupithecia leucata (Hulst, 1896) (from Prorella)
91a0320 Eupithecia albida (Cassino & Swett, 1923) (from Prorella)
91a0321 Eupithecia ochrocarneata (McDunnough, 1949) (from Prorella)
91a0322 Eupithecia irremorata (Dyar, 1923) (from Prorella)
91a0323 Eupithecia tremorata (McDunnough, 1949) (from Prorella)
91a0324 Eupithecia remorata (Grossbeck, 1907) (from Prorella)
91a0325 Eupithecia desperata (Hulst, 1896) (from Prorella)
91a0326 Eupithecia artestata (Grossbeck, 1908) (from Prorella)
91a0327 Eupithecia mellisa (Grossbeck, 1908) (from Prorella)
91a0328 Eupithecia insipidata (Pearsall, 1910) (from Prorella)
91a0329 Eupithecia opinata (Pearsall, 1909) (from Prorella)
91a0330 Eupithecia protoptata McDunnough, 1938 (from Prorella)
91a0351 Psaliodes interrupta (Grossbeck, 1910) (from Perizoma)
91a0352 Psaliodes ochreata (Grossbeck, 1910) (from Perizoma)
91a0593 Scelidacantha fuscata (Grossbeck, 1906) (from Lithostege)
91a0594 Scelidacantha elegans (Grossbeck, 1909) (from Lithostege)
91a0595 Scelidacantha angelicata (Dyar, 1923) (from Lithostege)
91a0703 Macaria metanemaria (Hulst, 1887) (from Letispe)
91a1061 Biston rigidaria (Barnes & McDunnough, 1916) (from Cochisea)
91a1062 Biston barnesi (Cassino & Swett, 1922) (from Cochisea)
91a1063 Biston undulata (Rindge, 1975) (from Cochisea)
91a1064 Biston paula (Rindge, 1975) (from Cochisea)
91a1065 Biston unicoloris (Rindge, 1975) (from Cochisea)
91a1066 Biston sonomensis (McDunnough, 1941) (from Cochisea)
91a1067 Biston recisa (Rindge, 1975) (from Cochisea)
91a1068 Biston curva (Rindge, 1975) (from Cochisea)
91a1069 Biston sinuaria (Barnes & McDunnough, 1916) (from Cochisea)
91a1150 Lomographa glaucina (Rindge, 1961) (from [no genus])
91a1230 Pero antidiscaria (Walker, 1860) (from Stenaspilatodes)

EREBIDAE
930672 Bradunia noloides (Barnes & McDunnough, 1916) (from Dyspyralis)

NOCTUIDAE
931785.5 Sympistis gracillinea (Grote, 1881) (from Oxycnemis)
931785.6 Sympistis acuna (Barnes, 1907) (from Oxycnemis)
932250 Caradrina anotha (Dyar, 1904) (from Protoperigea)
932251 Caradrina posticata (Harvey, 1875) (from Protoperigea)
932252 Caradrina umbricata (Mustelin, 2006) (from Protoperigea)
932253 Caradrina subterminata (Mustelin, 2006) (from Protoperigea)
932254 Caradrina parvulata (Mustelin, 2006) (from Protoperigea)
932255 Caradrina calientensis (Mustelin, 2006) (from Protoperigea)
933103 Trichopolia curtica (Smith, 1890) (from Protorthodes)
933104 Trichopolia eureka (Barnes & Benjamin, 1927) (from Protorthodes)
933105 Trichopolia incincta (Morrison, 1875) (from Protorthodes)
933107 Trichopolia argentoppida (McDunnough, 1943) (from Protorthodes)
933112 Trichopolia mulina (Schaus, 1894) (from Protorthodes)
933113 Trichopolia oviduca (Guenée, 1852) (from Protorthodes)
933114 Trichopolia orobia (Harvey, 1876) (from Protorthodes)
933115 Trichopolia melanopis (Hampson, 1905) (from Protorthodes)
933115.1 Trichopolia texicana (Lafontaine, 2014) (from Protorthodes)
933115.2 Trichopolia perforata (Grote, 1883) (from Protorthodes)
933115.3 Trichopolia rufula (Grote, 1874) (from Protorthodes)
933115.4 Trichopolia ustulata (Lafontaine, Walsh & Ferris, 2014) (from Protorthodes)
933115.5 Trichopolia alfkenii (Grote, 1895) (from Protorthodes)
933115.6 Trichopolia antennata (Barnes & McDunnough, 1912) (from Protorthodes)

New Statuses

GEOMETRIDAE
91a0851 Glena kirkwoodaria Sperry, 1952

EREBIDAE
930183.1 Cisthene schwarziorum (Dyar, 1899)

NOCTUIDAE
932558 Lithophane lepida adipel (Benjamin, 1936)

Revived Combinations

PLUTELLIDAE
36a0177 Plutella hyperboreella Strand, 1902
36a0179 Plutella porrectella (Linnaeus, 1758)

COSSIDAE
53a0004 “Zeuzera” masoni Schaus, 1892

DREPANIDAE
850020 Falcaria bilineata (Packard, 1864)

GEOMETRIDAE
91a0313 Eupithecia vaporata Pearsall, 1912
91a0314 Eupithecia mendicata Barnes & McDunnough, 1918
91a0316 Eupithecia emmedonia Grossbeck, 1908
91a0317 Eupithecia gypsata Grote, 1882
91a0812 Digrammia indeterminata (McDunnough, 1939)

Revived Statuses

TISCHERIIDAE
23a0003 Tischeria immaculata Braun, 1915

TINEIDAE
300179 Elatobia carbonella (Dietz, 1905)

GRACILLARIIDAE
33a0142 Parornix solitariella (Dietz, 1907)

TORTRICIDAE
51a0070.1 Eana niveosana (Packard, 1867)
51a0552 Olethreutes trepidulum (Heinrich, 1926)

BLASTOBASIDAE
59a1800.5 Lateantenna inana (Butler, 1881)

MOMPHIDAE
59a1813.1 Mompha albocapitella (Chambers, 1875)

PTEROPHORIDAE
63a0073.1 Trichoptilus potentellus Lange, 1939
63a0083.1 Hellinsia meyricki (Barnes & Lindsey, 1921)
63a0107.3 Hellinsia angustus (Walsingham, 1880)
63a0107.4 Hellinsia stramineus (Walsingham, 1880)
63a0110.1 Hellinsia serenus (Meyrick, 1913)

DREPANIDAE
850006.1 Thyatira superba Barnes, 1901

SATURNIIDAE
890041.2 Hemileuca menyanthevora Pavulaan, 2020
890068.1 Agapema dyari Cockerell, 1914
890068.2 Agapema platensis Peigler & Kendall, 1993
890075.1 Rothschildia forbesi Benjamin, 1934

SPHINGIDAE
890144.1 Paonias macrops (Gehlen, 1933)

GEOMETRIDAE
91a0751 Macaria ulsterata (Pearsall, 1913)
91a1161 Metarranthis mestusata (Walker, 1860)

NOCTUIDAE
932583.1 Pyreferra moffatiana (Grote, 1882)

New Synonymies

(The first name listed is the junior synonym; the second name listed is the valid name)

NEPTICULIDAE
16a0039 Stigmella aromella Wilkinson & Scoble, 1979
=Stigmella populetorum (Frey & Boll, 1878)

GRACILLARIIDAE
33a0334 Lithocolletis restrictella Braun, 1939
=Phyllonorycter maestingella (Müller, 1764)
33a0377 Phyllocnistis magnoliella Forbes, 1923
=Phyllocnistis liriodendronella Clemens, 1863

YPONOMEUTIDAE
36a0116 Swammerdamia beirnei Doğanlar, 1979
=Swammerdamia pyrella (de Villers, 1789)

YPSOLOPHIDAE
36a0142 Cerostoma maculatella Busck, 1906
=Ypsolopha angelicella (Busck, 1903)
36a0146 Cerostoma dentiferella Walsingham, 1881
=Ypsolopha canariella (Walsingham, 1881)
36a0146 Cerostoma frustella Walsingham, 1881
=Ypsolopha canariella (Walsingham, 1881)
36a0147 Cerostoma electropa Meyrick, 1914
=Ypsolopha cervella (Walsingham, 1881)

PLUTELLIDAE
36a0142 Plutelloptera Baraniak, 2007
=Plutella Schrank, 1802
36a0142 Pseudoplutella Baraniak, 2007
=Plutella Schrank, 1802

LIMACODIDAE
57a0058 Cyrtosia albipunctata Packard, 1864
=Packardia geminata (Packard, 1864)
57a0058 Cyrtosia ocellata Grote, 1865
=Packardia geminata (Packard, 1864)
57a0064 Tortricidia crypta Dyar, 1902
=Tortricidia testacea Packard, 1864
57a0092 Monoleuca angustilinea Dyar, 1927
=Monoleuca semifascia (Walker, 1855)
57a0092 Monoleuca erectifascia Dyar, 1925
=Monoleuca semifascia (Walker, 1855)
57a0092 Monoleuca subdentosa Dyar, 1891
=Monoleuca semifascia (Walker, 1855)
57a0092 Monoleuca sulfurea Grote, 1880
=Monoleuca semifascia (Walker, 1855)

AUTOSTICHIDAE
59a0024 Glyphidocera hurlberti Adamski, 2000
=Glyphidocera septentrionella Busck, 1904

New Synonymies, continued

OECOPHORIDAE
59a0051 Denisia yukonella Lvovsky, 2007
=Brymblia quadrimaculella (Chambers, 1875)

GELECHIIDAE
59a1187 Gnorimoschema petiolatum Povolný, 1998
=Gnorimoschema clavatum Povolný, 1998
59a1202 Gnorimoschema pocketosum Povolný, 2003
=Gnorimoschema foliatum Povolný, 2003
59a1227 Gnorimoschema lobatum Povolný, 1998
=Gnorimoschema nanulum Povolný, 1998
59a1244 Gnorimoschema spinosum Povolný, 1998
=Gnorimoschema segregatum Povolný, 1998
59a1329 Gelechia lavernella Chambers, 1874
=Symmetrischema pallidochrella (Chambers, 1872)

COLEOPHORIDAE
59a1635.1 Coleophora sparsiatomella McDunnough, 1941
=Coleophora sparsipulvella Chambers, 1875
59a1642.1 Coleophora portulacae Cockerell, 1898
=Coleophora texanella Chambers, 1878

BLASTOBASIDAE
59a1752 Holcocera concolor Adamski & Maier, 2003
=Holcocera immaculella McDunnough, 1929

MOMPHIDAE
59a1813.1 Laverna murtfeldtella Chambers, 1875
=Mompha albocapitella (Chambers, 1875)

PTEROPHORIDAE
63a0086 Leioptilus wrangeliensis Zagulajev, 1985
=Hellinsia albilobata (McDunnough, 1939)

PYRALIDAE
80a0571 Homoeosoma reliquellum Dyar, 1904
=Phycitodes mucidella (Ragonot, 1887)

CRAMBIDAE
80a1102 Deuterophysa micralis Hampson, 1907
=Cangetta violescentalis (Hampson, 1895)

DREPANIDAE
850003 Habrosyne abrasoides Barnes & Benjamin, 1929
=Habrosyne scripta (Gosse, 1840)
850003 Habrosyne chatfieldii Grote, 1895
=Habrosyne scripta (Gosse, 1840)
850009 Bombycia griseor Barnes & McDunnough, 1910
=Euthyatira semicircularis (Grote, 1881)
850019 Drepana alaskensis Barnes & Benjamin, 1922
=Drepana arcuata Walker, 1855
850019 Drepana siculifer Packard, 1872
=Drepana arcuata Walker, 1855
850020 Drepana rampartensis Barnes & Benjamin, 1922
=Falcaria bilineata (Packard, 1864)
850021 Eudeilinia luteifera Dyar, 1917
=Eudeilinia herminiata (Guenée, [1858])

LASIOCAMPIDAE
870003 Phyllodesma coturnix Lajonquière, 1969
=Phyllodesma americana (Harris, 1841)
870003 Gastropacha occidentis Walker, 1855
=Phyllodesma americana (Harris, 1841)

SATURNIIDAE
890041.2 Hemileuca iroquois Cryan & Dirig, 2020
=Hemileuca menyanthevora Pavulaan, 2020
890042 Hemileuca artemis Packard, 1893
=Hemileuca nevadensis Stretch, 1872
890052 Hemileuca vanschaycki Brechlin & Meister, 2014
=Hemileuca eglanterina (Boisduval, 1852)

GEOMETRIDAE
91a0120 Nannia morensata Hulst, 1896
=Heterophleps triguttaria Herrich-Schäffer, [1854]
91a0125 Lobophora anguilineata Grote & Robinson, 1867
=Cladara limitaria (Walker, 1860)
91a0127 Philopsia canavestita Pearsall, 1906
=Lobophora nivigerata Walker, 1862
91a0127 Talledega magnoliatoidata Dyar, 1904
=Lobophora nivigerata Walker, 1862
91a0127 Lobophora montanata Packard, 1874
=Lobophora nivigerata Walker, 1862
91a0127 Lobophora simsata Swett, 1920
=Lobophora nivigerata Walker, 1862
91a0141 Hydrelia terraenovae Krogerus, 1954
=Venusia cambrica Curtis, 1839
91a0156 Nasusina Pearsall, 1908
=Eupithecia Curtis, 1825
91a0156 Prorella Barnes & McDunnough, 1918
=Eupithecia Curtis, 1825
91a0700 Letispe Ferguson, 2008
=Macaria Curtis, 1826
91a1060 Cochisea Barnes & McDunnough, 1916
=Biston [Leach, 1815]
91a1109 Diastictis particolor Hulst, 1898
=Numia terebintharia Guenée, [1858]
91a1230 Stenaspilatodes Franclemont & Poole, 1972
=Pero Herrich-Schäffer, 1855

NOCTUIDAE
932250 PROTOPERIGEA McDunnough, 1937
=Caradrina Ochsenheimer, 1816
932679 Ipimorpha intexta Harvey, 1875
=Ipimorpha pleonectusa Grote, 1873
932962 Leucania solita Walker, 1856
=Leucania humidicola Guenée, 1852
933053 Mamestra repentina Morrison, 1875
=Lacinipolia olivacea (Morrison, 1875)
933102 PROTORTHODES McDunnough, 1943
=Trichopolia Grote, 1883

Revised Synonymies

DEPRESSARIIDAE
59a0122 Depressaria sciadopa Meyrick, 1920
=Exaeretia ciniflonella (Lienig & Zeller, 1846)

GELECHIIDAE
59a1329 Gelechia physalivorella Chambers, 1875
=Symmetrischema pallidochrella (Chambers, 1872)

PIERIDAE
77a0401 Terias calceolaria Butler & Druce, 1872
=Pyrisitia westwoodii (Boisduval, 1836)

SPHINGIDAE
890144.1 Paonias emmeli Eitschberger, 2002
=Paonias macrops (Gehlen, 1933)

GEOMETRIDAE
91a0125 Nyctobia eastmani Reiff, 1913
=Cladara limitaria limitaria (Walker, 1860)
91a0125 Eupithecia vernata Packard, 1873
=Cladara limitaria limitaria (Walker, 1860)
91a0127 Cidaria nocticolata Hulst, 1881
=Lobophora nivigerata Walker, 1862

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PREFACE

The purpose of a species checklist is to provide a framework for the organization of biological information. It should provide a standardized set of names such that users can refer to species unambiguously and share information about them with others. It should allow a user who encounters an unfamiliar name in a collection or old publication to find the currently valid name for the species in question. It should allow the available information on identification, distribution, biology, etc., to be obtained, no matter which synonym that information may have been published under. It should also present species in the most up-to-date taxonomic framework so that taxa can be put in context with their closest relatives. That is what we have attempted to accomplish with the current list, which is an expanded update to the Hodges et al. (1983) checklist of the Lepidoptera species that occur in North America north of the Mexican border. We hope that we have fulfilled those goals.

This publication lists all the described butterfly and moth (Lepidoptera) species (and a few undescribed species) that are known to occur in Canada, Greenland, and the continental United States of America. Although efforts have been made to note taxa that may not be breeding residents in North America, we recognize that some may not be indicated as such. This document is not intended to be the authority of what species are, from a legal aspect, considered to be established and breeding in North America.

We have endeavored to include information from all publications up to the end of December 2022, plus a few that were in press at that time and were published in early 2023. This list is not technically a catalog, as it does not include full literature citations of all original descriptions or information on all type specimens. Rather, it is an annotated taxonomic checklist, including synonyms and other invalid names, as well as much additional information.

We have cited the sources of new descriptions, discoveries, and synonymies since the Hodges et al. (1983) list was compiled; these may be cited in the family-level summary text, in the “ID INFO” field, or in a NOTE. Additionally, we have attempted to provide details on all species that have historically (since about 1900) been reported as occurring here, but that have been discounted or otherwise removed from the list. We have also attempted to document common misapplications of names and misidentifications that have led to incorrect information in the past. We cite the majority of relevant taxonomic works published in the past century to provide a starting point for the user who is attempting to identify a specimen in hand.

A preliminary version of the present list was compiled by Gregory Pohl (GRP) in 2016, as a taxonomic framework for information that became the checklist of the Lepidoptera of Canada and Alaska (Pohl et al. 2018). It was based largely on the Hodges et al. (1983) list, which was updated by extracting and incorporating all new taxa and new arrangements from relevant taxonomic papers published since 1979. In 2014, GRP reconciled his work in progress with a similar endeavor by Bob Patterson, for the Moth Photographers Group website (Moth Photographers Group 2022), incorporating many new records submitted to that site. Updated butterfly nomenclature was provided by Jonathan Pelham, following Pelham (2016), and the resulting provisional list was released online in May 2016 (Pohl et al. 2016).

For the current project, the nomenclature was updated by Steve Nanz (SRN) and GRP, and then distributed to chapter authors for further updating and correcting. The list was brought up to date to the end of December 2022 to the best of our collective abilities and edited by GRP to conform to the format and parameters described below. The introductory sections were prepared by GRP. The “Excluded Taxa”, “Literature Cited”, and “Index” sections are based on the collective work of the chapter authors and editors and were compiled and formatted by GRP.

"I have a little brown cocoon of an idea
that may possibly expand into a magnificent moth of fulfillment."

- Lucy Maud Montgomery
(Anne's House of Dreams)

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This list would not have been possible without the assistance of the worldwide community of present-day Lepidoptera experts and enthusiasts. We were assisted in this work by many people who were generous with their knowledge and their time. People who helped us, provided information, and answered our questions include Leif Aarvik, Valeriu Albu, Alexandre Anctil, Vasili Anikin, Gary Anweiler, Kyhl Austin, Joaquin Baixeras, Giorgio Baldizzone, David Beadle, Carle Bélanger, Bob Belmont, Oleksiy Bidzilya, Charley Bird, Norris Bloomfield, Julia Blyth, Charles Bordelon (deceased), Patrice Bouchard, Robert Bourchier, Gunnar Brehm, Jim Brock, Vernon Brou Jr., Richard Brown, John Calhoun, Alain Charpentier, Charles Covell, Lars Crabo, John De Benedictis, Barb Deneka, Jeremy deWaard, Loney Dickson, Jason Dombroskie, Julian Donahue, Mark Dreiling, Vladimir Dubatolov, Julian Dupuis, Willem Ellis, Clifford Ferris, Ivonne Garzón, Alessandro Giusti, Jen Gleason, Paul Goldstein, Nick Grishin, Cris Guppy, Daniel Handfield, Louis Handfield, Chuck Harp, Terry Harrison, Rachel Hawkins, Jean Haxaire, Paul Hebert, Rémi Hébert, Ann Hendrickson, John Heppner, Ron Hodges (deceased), Dave Holden, Frank Hsu, Peter Huemer, Anna Hundsdoerfer, Aaron Hunt, Christi Jaeger, Ole Karsholt, Akito Kawahara, Atsushi Kawakita, Kevin Keegan, Teá Kesting-Handly, John Klymko, Shigeki Kobayashi, Norbert Kondla, Don Lafontaine, Eric LaGasa, Bernard Landry, Léo-Paul Landry, David Langor, Knud Larsen, Seabrooke Leckie, David Lees, Houhun Li, Al Ludtke, Doug Macaulay, Andreas Manz, Tanner Matson, Don McAlpine, Alec McClay, Fritz McEvoy, Jan Metlevski, Mark Metz, Eric Metzler, Scott Miller, Stefan Naumann, Vazrick Nazari, Paul Opler (deceased), Margaret Ormes, Steven Passoa, Bob Patterson (deceased), Richard Peigler, Olle Pellmyr (deceased), Ray Perreault, Wade Petersen, Margarita Ponomarenko, Jerry Powell (deceased), Tim Reichard, Kelly Richers, Tony Roberts, Rodolphe Rougerie, Hanna Royals, Daniel Rubinoff, Michael Sabourin, Klaus Sattler, Markku Savela, James Scott (deceased), Zong-Yu Shen, Jon Shepard, M. Alma Solis, Felix Sperling, Jukka Tabell, Angela Telfer, Jim Troubridge, Petr Ustjuzhanin, Jim Vargo, David Wagner, Shuxia Wang, Andrew Warren, Ian Watkinson, Taylar Whidden, Steven Whitebread, Donald Wright, Doug Yanega, Zhaofu Yang, and Reza Zahiri. If we have failed to mention anyone who has contributed to this work, we apologize for the oversight. Credit for this work is shared among the community of Lepidopterists, but responsibility for errors and omissions rests with the authors and editors.

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INTRODUCTION

About 40 years have passed since the last checklist of North American Lepidoptera (Hodges et al. 1983) was published, and our knowledge of North American Lepidoptera and their relationships has advanced dramatically since then. Figure 1 illustrates the accumulation of species-level names applied to the Nearctic fauna since the advent of binomial zoological nomenclature in 1758. Though not phylogenetically accurate, for convenience we divide the Lepidoptera here into butterflies (Papilionoidea), macromoths (Pyraloidea, Mimallonoidea, Drepanoidea, Lasiocampoidea, Bombycoidea, Geometroidea, and Noctuoidea), and micromoths (all other superfamilies).

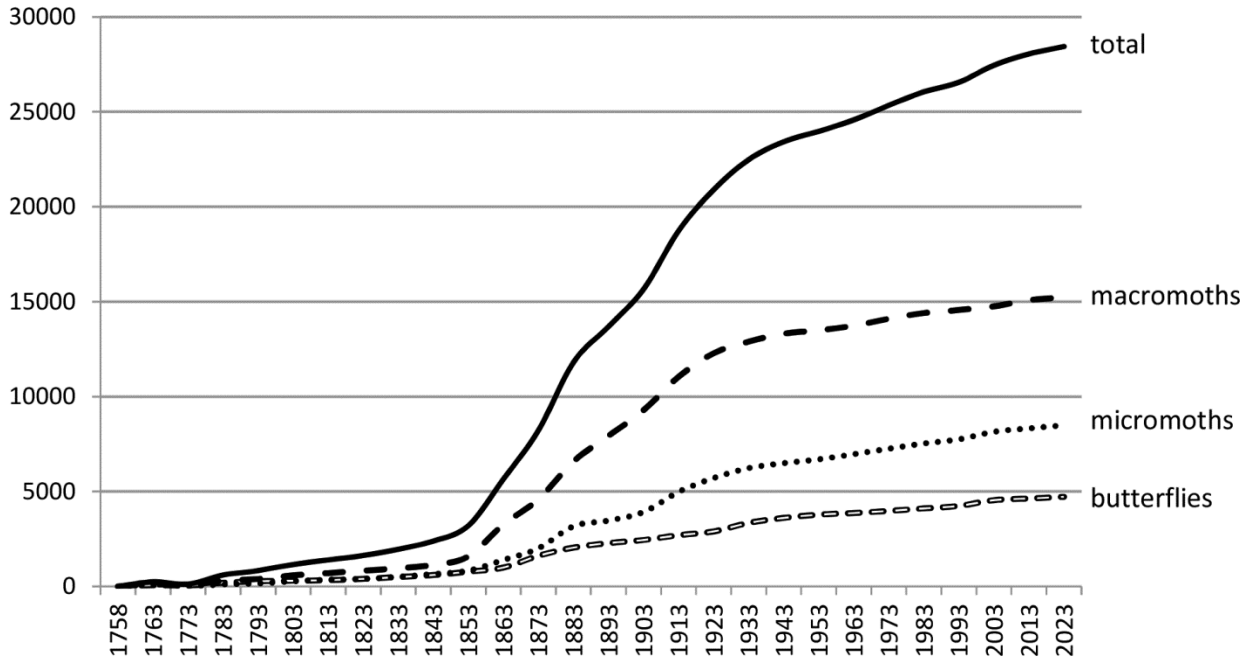


Figure 1. Accumulation of North American Lepidoptera species-group name descriptions from 1758 to 2022.

Species-level names have not accumulated evenly over the past 265 years. The first phase of taxonomic work, up to about 1850, was a gradual accumulation of descriptions carried out largely by Europeans. The next phase, from about 1850 to 1926, represents the steepest accumulation of new descriptions, as resident North Americans wholeheartedly delved into documenting the diversity around them. Since that phase, new names have accumulated a little more slowly, with a slightly higher rate among moths than butterflies. The proportion of currently recognized species relative to all species-level names is much lower in the butterflies (approximately 20% are valid species) than for micromoths (60%) or macromoths (47%), illustrating the finer taxonomic knowledge and attendant plethora of subspecies, varieties, and forms described in the butterflies. The recent application of genetic tools has helped taxonomists continue to discover new species, even among the supposedly well-known butterflies. Recent genetic analyses have also helped refine and solidify the relationships among higher-level taxa. Although our understanding of the relationships among superfamilies and families is not final, it is much better now than it was in 1983.

The current list is the latest in a tradition of publications listing the Lepidoptera species known at various points in time in North America, summarized by Heppner (2000) and illustrated in Figure 2. The first catalog of North American Lepidoptera was published by Morris (1860). It included all species described from North America, including Mexico and the West Indies. It did not include Holarctic or introduced European species, so it was not a fully comprehensive treatment of the North American fauna. The first comprehensive list was published by Smith (1891), numbered up to “6020” but including 6,006 valid species entries. That was followed by the works of Dyar (1902) with 6,667 species; and Smith (1903) with 6,896 species. The two were occasional collaborators and more regularly rivals who often disagreed on taxonomic matters (Epstein 2016).

Dyar's catalog was dated December 1902 but was distributed in March 1903; Smith's list followed in June 1903. Dyar's list remains the only full catalog of North American Lepidoptera published to date; Smith's was an update to his 1891 list. Subsequent lists were published by Barnes & McDunnough (1917) with 8,591 species, McDunnough (1938, 1939) with 9,908 species, and Hodges et al. (1983) with 11,279 species. Additionally, the Lepidoptera section of “Nomina Insecta Nearctica” (Poole & Gentili 1996) listed 11,673 valid species (11,658 in the CD version). Although Poole & Gentili (1996) is a basic list of valid names and their synonyms, it was not intended to be a checklist and it does not include all the taxonomic ranks, and it does not include any details on misidentifications, erroneous records, etc. In 2016, a provisional version of the current list (Pohl et al. 2016) was released online to make the information available to researchers. It contained 12,766 valid species and was current to the end of 2015.

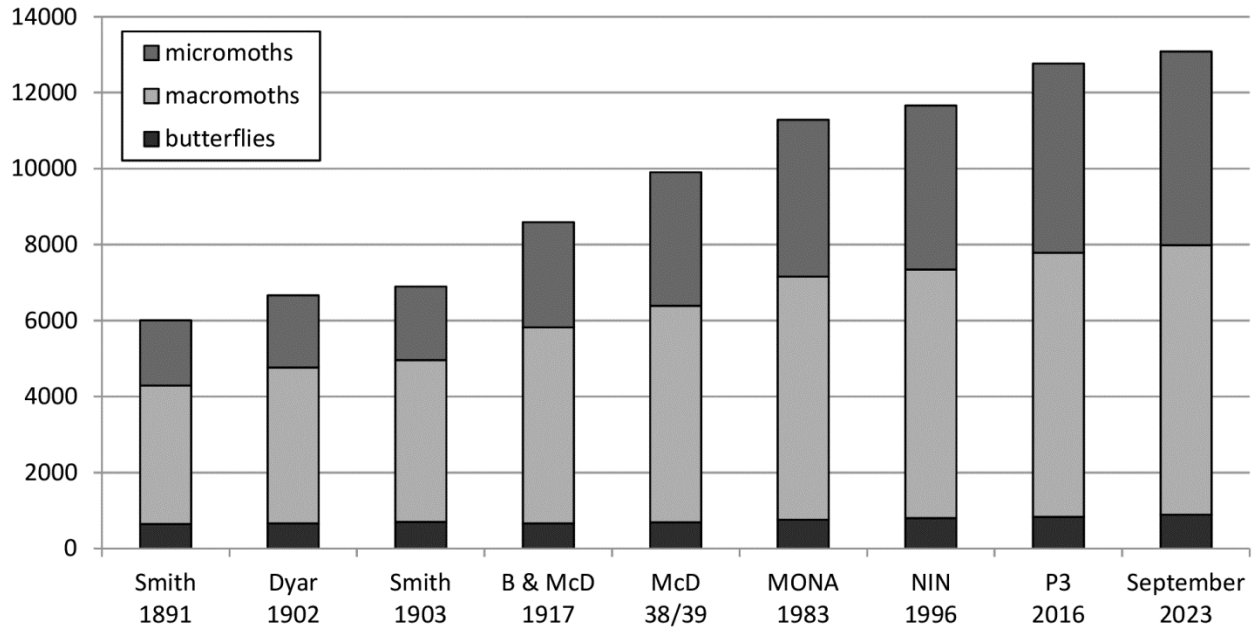


Figure 2. Comparison of total valid species included in the Lepidoptera checklists of Smith (1891), Dyar (1902), Smith (1903), Barnes & McDunnough (B & McD 1917), McDunnough (McD 1938-39), Hodges et al. (MONA 1983), Poole & Gentili (NIN 1996), Pohl et. al (P3 2016) and the present list.

For comparison purposes we consider Hodges et al. (1983) to be the most recent complete published checklist. The valid species listed in it were numbered from “1” to “11233” but five numbers were not used, five names were inadvertently duplicated, and it included 56 decimal numbers, for a total of 11,279 species.

The current list includes 13,084 recognized North American species, an increase of 1,805 species (16.0%) since Hodges et al. (1983). Included in this number are one extinct species, one species that is probably extinct, 12 that are extirpated from North America, and 30 that have not been verified as occurring in North America. Note that 25 of these recognized species do not have available names; 22 are misapplied names and three are unavailable names, all of which are used as placeholders for legitimate biological “species”. The current work also details 26 nomina dubia and 192 species that have historically been listed as occurring in North America, but which are hereby excluded from the North American fauna.

A total of 1,177 of the species-level taxa listed as valid in Hodges et al. (1983) are no longer recognized as valid species, and 74 are now considered excluded species. In total, there are 10,028 valid species that were listed as valid species by Hodges et al. (1983), and there are 3,056 new valid species names in the current list. Of those, 1,703 species have been newly described since the cut-off date for inclusion in the previous list, approximately at the end of 1978. The other additions are mostly either species that were described from outside of North America and have been recently introduced or discovered here, or species that were listed as synonyms by Hodges et al. (1983) and are now recognized as distinct. Some are a result of corrected spellings or revised species concepts. Since Hodges et al. (1983), the number of recognized micromoth

species has increased by 23.5%, whereas the macromoths and butterflies have increased by 10.7% and 16.7%, respectively (Figure 2).

Approximately 44% of the valid species names in the current list appeared as such in the recent checklist of Lepidoptera of Canada and Alaska by Pohl et al. (2018). No checklist has been published for the United States as a whole, but regional checklists have been published for several of the states, including Alaska (Ferris et al. 2012), Arkansas (Lovely & Ettman 2013), Connecticut (Britton 1920, 1938), Florida (Heppner 2007), Kentucky (Covell 1999), Maryland (Maryland Biodiversity Project 2021), Maine (Brower 1974, 1983, 1984), Michigan (Moore 1955; Nielsen 1998), North Carolina (Hall et al. 2021), New Jersey (Muller 1965-79), New York (Forbes 1923, 1948, 1954, 1960), Pennsylvania (Tietz 1952), Texas (Knudson & Bordelon 2004, 2018), and Vermont (Grehan et al. 1995). In addition, unpublished lists have been compiled for Mississippi and Ohio. The Lepidoptera of Greenland were listed by Karsholt et al. (2015).

A summary of the current number of species known in each family appears in Table 1. The total number of species that actually occur in North America is undoubtedly considerably higher than the counts listed herein, as new species are described and new records are discovered every year. New records of tropical species continue to be found, particularly in Arizona, Florida, and Texas. Most butterfly and macromoth families are relatively well known in North America, but new species and records continue to be found. Most new species and records are expected to be found among the micromoths, particularly in the Gelechioidea, most of which are relatively poorly known. Our intent is to keep a list continually updated online, available in association with the Moth Photographers Group website.

Table 1. Counts of valid species for families of Lepidoptera in North America.

Micropterigidae	3
Eriocraniidae	13
Acanthopteroctetidae	4
Hepialidae	19
Nepticulidae	97
Opostegidae	10
Prodoxidae	65
Tridentaformidae	1
Incurvariidae	6
Heliozelidae	30
Adelidae	30
Tischeriidae	49
Meessiidae	3
Psychidae	27
Dryadaulidae	2
Tineoidea unplaced	1
Tineidae	196
Bucculatricidae	104
Gracillariidae	315
Bedelliidae	2
Heliodinidae	31
Attevidae	2
Praydidae	5
Lyonetiidae	18
Argyresthiidae	54
Yponomeutidae	26
Ypsolophidae	32
Plutellidae	15
Glyphipterigidae	48
Millieriidae	1
Apoditrysia unplaced	6
Douglasiidae	10
Schreckensteiniidae	3
Urodidae	2
Choreutidae	52
Galacticidae	1
Tortricidae	1440
Cossidae	48
Sesiidae	139
Epipyropidae	1
Zygaenidae	27
Lacturidae	6
Megalopygidae	12
Dalceridae	1
Limacodidae	48
Epimarptidae	1
Lecithoceridae	2
Autostichidae	24
Oecophoridae	39
Lypusidae	1
Depressariidae	203
Cosmopterigidae	187
Gelechiidae	907
Pterolonchidae	9
Elachistidae	153
Coleophoridae	152
Batrachedridae	23
Scythrididae	43
Stathmopodidae	4
Blastobasidae	73
Momphidae	47
Gelechioidea unplaced	3
Alucitidae	5
Pterophoridae	168
Copromorphidae	9
Carposinidae	11
Epermeniidae	12
Thyrididae	13
Hyblaeidae	1
Hesperiidae	315
Papilionidae	42
Pieridae	82
Lycaenidae	180
Riodinidae	29
Nymphalidae	243
Pyralidae	681
Crambidae	884
Mimallonidae	5
Doidae	3
Drepanidae	20
Lasiocampidae	33
Apatelodidae	6
Bombycidae	0
Saturniidae	91
Sphingidae	135
Uraniidae	12
Sematuridae	1
Geometridae	1441
Notodontidae	179
Erebidae	994
Euteliidae	18
Nolidae	40
Noctuidae	2555
total	**13084**

METHODS

Scope and coverage

The current list treats Lepidoptera species occurring in Canada, the continental United States including Alaska, Greenland, and the French Islands of St. Pierre and Miquelon near Newfoundland. Hawaii, Mexico, Central America, the Bahamas, Puerto Rico, and other islands of the Caribbean are excluded. This corresponds closely with the Nearctic biogeographic realm, and, with apologies to Mexican and Central American residents, is referred to henceforth as "North America" (abbreviated as NA) for convenience.

For the purposes of this list, our definition of a "NA species" is a species that occurs for at least part of its life cycle in the wild (or at least unaided by humans) in NA as defined above. This includes STRAYs (unestablished species that have presumably arrived without human intervention), and species that have established breeding populations in human environments, such as homes and greenhouses. Species that have been brought in by humans and intercepted with no evidence that a viable population has ever been established are excluded from the NA fauna. Exotic species that are kept in zoos and butterfly houses, and other exotic species commonly kept in domestication, are not deemed part of the NA fauna (but a few of these are listed as EXCLUDED species, see below).

A total of 30 species that have been plausibly reported as occurring in NA, but not yet verified, are included in the list with the descriptor "UNVER.". These unverified species are included in the family-level and overall counts of species. We also include in our counts one EXTINCT species, one species that is likely EXTINCT, 12 EXTIRPATED species, and 29 species of uncertain identity (taxa described from NA that are currently unidentifiable).

Excluded taxa

A total of 192 species that have been erroneously reported from NA are included within the main list as "excluded species", but are clearly noted as such with an "E" appended to the Phylogenetic Number, and the descriptor "EXCL." following the name. These excluded species are not tabulated in the various counts of NA species that appear in the text. Additionally, 26 nomina dubia are listed but excluded from the counts of species, as they are considered permanently unidentifiable and likely represent biological species that are known by other valid names. The Phylogenetic Numbers of these 26 nomina dubia are appended with a small "e". In addition, a few excluded subspecies that have been erroneously reported from NA appear in the main list, appended with the lowercase descriptor "(excl.)". Our criteria for listing EXCLUDED species is that they must have been mentioned in NA taxonomic literature since 1900, and/or have been a regular source of confusion in NA collections and nomenclature. All excluded species and nomina dubia are also listed separately in the "Excluded taxa" section following the main list.

Classification scheme

The overall classification scheme for the order Lepidoptera from the order level to the family level is derived from van Nieukerken et al. (2011), with modifications based on more recent work. Most significantly, the Gelechioidea, Alucitoidea, Pterophoroidea, Carposinoidea, and Epermenioidea have recently been removed from among the "stem" lineages of "microlepidoptera" and solidly placed within the Obtectomera with butterflies and "macrolepidoptera" (Mitter et al. 2017; Kawahara et al. 2019). Our presentation here reflects those changes and is congruent with the phylogeny of Kawahara et al. (2019), with one exception: herein we continue to place the butterflies at their traditional position deeper within the Obtectomera for expediency, rather than as sister to the rest of Obtectomera where recent analysis suggests they may belong. Additionally, some branches in the phylogeny of Kawahara et al. (2019) have been rotated about their axes without contradicting the underlying phylogeny so that the sequence of groups remains more similar to the sequence in previous NA classification schemes.

At the subfamily level, the current classification is derived from the world overview of Lepidoptera edited by Kristensen (1999), with modifications based on newer literature, including the higher-level works by Regier et al. (2015a, b) and Sohn et al. (2013, 2015a). See the individual family-level text sections for details on classification below the family level. Where no acceptable classification scheme exists or can be elucidated,

we default to the alphabetical order of subordinate groups. A summary of incorporated changes to the classification at the family level and above is as follows.

Micropterigoidea, Eriocranioidea

No changes at the family level since van Nieukerken et al. (2011).

Neopseustoidea

Acanthopteroctetidae placed here with the (extralimital) Neopseustidae, as sister to the Eriocranioidea following Regier et al. (2015b) and Bazinet et al. (2016).

Hepialoidea, Nepticuloidea

No changes at the family level since van Nieukerken et al. (2011).

Adeloidea

Family Tridentaformidae proposed by Davis (in Regier et al. 2015a), and placed in Adeloidea by Regier et al. (2015b).

Tischerioidea

No changes at the family level since van Nieukerken et al. (2011).

Tineoidea

Recognition of Meessiidae and Dryadaulidae as separate families distinct from Tineidae, by Regier et al. (2015a). Note that this concept of the family Meessiidae includes only a small portion of the taxa previously placed in the tineid subfamily “Meessiinae”. In addition, Regier et al. (2015a) removed the species *Doleromorpha porphyria* from Tineidae and Meessiidae, and left it unplaced in the Tineoidea.

Gracillarioidea

No changes at the family level since van Nieukerken et al. (2011).

Yponomeutoidea

We recognize 10 Nearctic families, following Sohn et al. (2013). The family sequence used here is from Figure 4 of that work and remains tentative.

“Ditrysia (unassigned to superfamily)”

The family Millieriidae was placed as the most primitive Ditrysia group by van Nieukerken et al. (2011). We place it there unassigned to any superfamily following Rota & Kristensen (2011).

“Apoditrysia (unassigned to superfamily or family)”

This unnamed group includes four genera that were excluded from Yponomeutoidea by Sohn et al. (2013), Lewis & Sohn (2015), and on advice from Jae-Cheon Sohn (in litt.); see details in the introductory text for this family-level group.

Douglasioidea

The family Douglasiidae was unplaced to superfamily in van Nieukerken et al. (2011). Since then, Karsholt & Nielsen (2013) proposed the superfamily Douglasioidea.

Schreckensteinioidea, Urodoidea, Choreutoidea, Galacticoidea, Tortricoidea, Cossoidea, Sesioidea, Zygaenoidea

These superfamilies are all clearly excluded from the Obtectomera (Mitter et al. 2017; Kawahara et al. 2019).

Kawahara et al. (2019) found that the Sesiidae do not form a monophyletic group with the remaining Cossoidea families, so they are placed in their own superfamily herein, as they were in Hodges et al. (1983) and many other previous works.

Gelechioidea

Placement of this superfamily in the overall Lepidopteran phylogeny continues to be problematic (Rota et al. 2022). Based on advice from Maria Heikkilä, Lauri Kaila, Sangmi Lee, and Erik van Nieukerken, we have placed the Gelechioidea as the first group within the Obtectomera clade (but see Kawahara et al. 2019). This relationship was first suggested by Regier et al. (2013), followed by Mitter et al. (2017) who firmly placed the Gelechioidea with the butterflies and "macrolepidoptera" in the Obtectomera.

Within the Gelechioidea, the higher classification has been remarkably unstable. The arrangement and number of families, subfamilies, and tribes diverged greatly among modern authors (e.g., Hodges 1999a; Kaila 2004). One of the major stumbling blocks remains the sheer diversity of the superfamily coupled with grossly inadequate taxonomic knowledge in some parts of the world (e.g., Afrotropical, Neotropical, and Oriental faunas and even some species-rich families in the Nearctic). Several recent studies (Kaila 2004; Bucheli & Wenzel 2005; Kaila et al. 2011; Heikkilä et al. 2014, 2015; Sohn et al. 2016; Wang & Li 2020) have contributed to an emerging consensus with respect to some major groupings (e.g., Depressariidae, Elachistidae, Oecophoridae) and the position of problematic taxa. We have adopted a family-level classification that is largely a consensus between the recent analyses of Heikkilä et al. (2014) and Sohn et al. (2016), with some informal higher groupings ("assemblages") that reflect phylogenetic relationships and are used for convenience. Additionally, we have incorporated some of the results of Wang & Li (2020), as follows. First, the genus *Idioglossa*, which was previously placed in Oecophoridae (Hodges et al. 1983) or Stathmopodidae (Pohl et al. 2016), or associated with the Lecithoceridae (Sohn et al. 2015a), is placed in the family Epimarptidae as the most basal Gelechioid family. Second, the Pterolonchidae are moved from the "Scythridid assemblage" of Sohn et al. (2015a) to the "Gelechiid assemblage" with Gelechiidae and Cosmopterigidae. Contrary to Wang & Li (2020), we retain the Ethmiinae and Peleopodinae as subfamilies of Depressariidae, because treating these as separate families is incongruent with other data. Regarding Ethmiinae, Wang & Li (2020) combine the group with the Parametriotinae (an Elachistidae subfamily herein) as the "Ethmiidae", and place it in the Elachistid group of families, far removed from the Depressariid group. However, previous studies (Kaila 2004; Heikkilä et al. 2014) have consistently placed the Ethmiinae in the Depressariid group of families. Regarding the Peleopodinae, the two NA genera in this group (*Pseuderotis* and *Durrantia*) have not been included in any phylogenetic analysis thus far. Additionally, Wang & Li (2020) did not include the type genus *Peleopoda* in their analysis, so we do not accept their conclusion and continue to treat Peleopodinae as a subfamily of Depressariidae rather than as a separate family.

In summary, three families recognized by van Nieukerken et al. (2011) have been reassigned in the current scheme as follows: "Peleopodidae" are placed as a subfamily of Depressariidae; "Chimabacchidae" are placed as a subfamily of Lypusidae; and "Coelopoetidae" are placed as a subfamily of Pterolonchidae. Additionally, three taxa of uncertain identity are placed at the end of the Gelechioidea with no family assignment; see the family-level text section for details.

On a nomenclatural note, the status of the family-group name Gelechiidae Stainton, 1854 is threatened by three senior family-group names described by Bruand in 1851 and currently considered as valid families in the same superfamily, namely Coleophoridae, Elachistidae, and Oecophoridae. These family names are thus subjective senior synonyms at the superfamily level. Hodges (1999a) pointed out this situation and indicated that he intended to apply to the International Commission of Zoological Nomenclature for a ruling to conserve the widely used junior name Gelechioidea, but that action never took place. A group of gelechioid specialists that includes three of the authors of this checklist (Lauri Kaila, Jean-François Landry, and Erik van Nieukerken) have made such an application (van Nieukerken et al. 2022b, Case 3842). Additionally, the status of the family Depressariidae is threatened by an older name (Epigraphiidae Guenée, 1845); a petition to conserve that name has been made as well (van Nieukerken et al. 2022a, Case 3841).

Alucitoidea, Pterophoroidea, Carposinoidea, Epermenioidea, Thyridoidea, Hyblaeoidea

No changes to the composition of these superfamilies since van Nieukerken et al. (2011), but recent genetic research (Regier et al. 2013) indicates that these groups belong to the Obtectomera, with the butterflies and Macroheterocera.

Papilionoidea, Pyraloidea, Mimallonoidea, Drepanoidea, Lasiocampoidea, Bombycoidea, Geometroidea, Noctuoidea

No changes at the family level since van Nieukerken et al. (2011).

CONVENTIONS AND ABBREVIATIONS

Throughout this publication, any information (authors, dates, etc.) that is different than stated in the cited publication, as determined from other sources, is placed in square brackets.

The three-letter abbreviation USA is used for the United States of America. Two-letter postal abbreviations are used for the states of the USA and the provinces and territories of Canada; GR is used for Greenland.

Initials are used to identify authors of the chapters of this work throughout the notes and annotations, as follows:

Adamski, David	DA	Matthews, Deborah L.	DLM
Brown, John W.	JWB	McGuinness, Hugh D.	HDM
Davis, Donald R.	DRD	Mielke, Carlos G. C.	CGCM
Eiseman, Charles S.	CSE	Nanz, Stephen R.	SRN
Epstein, Marc	ME	Nieukerken, Erik J. van	EJvN
Fiesler, Emile	EF	Pelham, Jonathan P.	JPP
Gaedike, Reinhard	RG	Pohl, Gregory R.	GRP
Gilligan, Todd M.	TMG	Rota, Jadranka	JR
Grehan, John R.	JRG	Schmidt, B. Christian	BCS
Hayden, James E.	JEH	Scholtens, Brian G.	BGS
Kaila, Lauri	LK	Sohn, Jae-Cheon	JCS
Kitching, Ian J.	IJK	St Laurent, Ryan A.	RAS
Koster, Sjaak	SK	Taft, William H.	WHT
Landry, Jean-François	JFL	Young, James D.	JDY
Lee, Sangmi	SL		

The following insect collection acronyms are used:

AMNH – American Museum of Natural History, New York City, NY.
CNC – Canadian National Collection of Insects, Arachnids and Nematodes, Ottawa, ON.
CUIC – Cornell University Insect Collection, Ithaca, NY.
FSCA – Florida State Collection of Arthropods, Gainesville, FL.
MGCL – McGuire Center for Lepidoptera and Biodiversity Collection, Gainesville, FL.
MMMN – Manitoba Museum of Man and Nature, Winnipeg, MB.
NHMUK – Natural History Museum, London, U.K.
ROM – Royal Ontario Museum, Toronto, ON.
USNM – United States National Museum, Washington, DC.

Other abbreviations used in this work are the following:

aberr. – aberration.
BIN – barcode index number; a system used by BOLD to assign operational taxonomic units based on sequence variation in the COI DNA barcode region.
BOLD – the Barcode of Life Data System housing mitochondrial DNA sequence data (Ratnasingham & Hebert 2007); http://www.boldsystems.org/index.php/Resources/whatIsBOLD.
BugGuide – a website (BugGuide 2022) hosted by the IA State University Department of Entomology; https://bugguide.net/node/view/15740.
ICZN – the Fourth Edition of the International Code of Zoological Nomenclature (1999).
in litt. – “in litteris” in Latin; referring to a written personal communication received by the authors.
in prep. – in preparation.
incertae sedis – Latin; meaning taxonomic placement uncertain.
iNaturalist – the iNaturalist (2022) website and database of citizen scientist observations; https://www.inaturalist.org/home.
lapsus calami – Latin; meaning a “slip of the pen”; an error in writing.
LepIndex – The Global Lepidoptera Names Index (Beccaloni et al. 2003); https://www.nhm.ac.uk/our-science/data/lepindex/lepindex/.
MONA – the “Moths of North America” publication series by the Wedge Entomological Research Foundation; “MONA Numbers” refer to species numbers from the Hodges et al. (1983) checklist.

MPG – the Moth Photographers Group website (Moth Photographers Group 2022), hosted by the MS Entomological Museum at MS State University; https://mothphotographersgroup.msstate.edu/.
NA – North America; North American.
pers. comm. – a verbal personal communication.
sic – “sic erat scriptum” in Latin; meaning essentially, “as it was written”, to indicate a misspelling or error.
ssp. – subspecies.
TL – type locality.

See also the DESCRIPTOR section on page 15.

FORMAT OF THE LIST

The individual entries in the checklist include the taxon, the author(s) of the taxon, and the date of description. One or more DESCRIPTORs and a NOTE may follow (see below).

Higher taxa are listed in capital letters in larger and/or bold font. Below the subtribe level, genera (in bold) and subgenera (regular font) are listed in regular-sized capital letters. Species groups and species complexes are indented, in regular-sized font. Species, subspecies, and their synonyms are indented, in regular-sized font. Synonyms are listed in italics, indented below the valid taxon. Synonyms are listed alphabetically below the valid name, then alphabetically by author and sequentially by date. See the section on synonyms, below, for more information on genus-level and subgenus-level synonyms.

Higher taxon entries

The name, author, and date of description are given. We do not list synonyms of taxa above the genus level.

Genus-level entries

Valid genus entries include the genus name, author, and date of description. We have endeavored to list all synonyms of valid genera and subgenera. Extralimital subgenera and their synonyms are not listed. However, in some catalogs, subgenera have been presented as synonyms and may be inadvertently presented here as such.

Genera placed in quotes indicate that a species is likely misplaced, but the genus name is provisionally retained pending taxonomic work and a revised placement.

ID INFO (References to taxonomic and diagnostic works)

These entries list identification resources immediately beneath the most inclusive taxonomic group covered by the work in question. The most comprehensive publication is listed first, followed by other helpful works, and then (preceded by “also”), more recent publications that deal with additions or other updates on the group since the comprehensive works. Note that taxonomic works and identification aids that cover an entire family are cited in the family-level text section and are not generally cited again at lower taxonomic levels. For any species added to or removed from the NA fauna since Hodges et al. (1983), we have endeavored to cite the source, either in the family text, the “ID INFO” field, or in a “NOTE”.

The references cited here are merely a starting point for making identifications and do not necessarily cover every NA species in a given group. We advise users to review the family text (as well as any “ID INFO” sources cited for the relevant subfamily, tribe, and subtribe entries) prior to delving into identifications within a group. In addition, we do not reiterate details of taxonomic changes and references to individual species descriptions that have been detailed in a recent checklist or catalog; those checklists and catalogs are cited in the family-level text sections and should be consulted for additional information and references.

Useful general works for NA Lepidoptera include Moth Photographers Group (2022), Butterflies of America (2022), and BugGuide (2022). Significant regional works include Forbes (1923, 1948, 1954, 1960), Covell (1984, 2005), Handfield (1999), Beadle & Leckie (2012), Leckie & Beadle (2018), and Wagner (2005; larvae) for eastern NA; and Powell & Opler (2009) and Pacific Northwest Moths (2022) for western NA. These works are not generally cited for specific taxa throughout the list, but can be very useful, particularly for groups that have not been revised recently.

Species-level entries

Below the higher-level categories, each valid species entry consists of a Phylogenetic Number (so-called “P-Number”), the genus initial, valid species epithet, the author and publication date of the name, and (in parentheses) the genus in which the species name was originally described. If the original genus is different from the current valid genus (not including minor variants in spelling), the author and date are also placed in parentheses, following zoological convention.

All species-level epithets in the list follow original orthography (except for original misspellings that have been subsequently emended under the provisions of the ICZN); they are not changed to match the gender of the current valid genus. Although this deviates from the International Code of Zoological Nomenclature (ICZN) (1999), it has been promoted for at least 50 years (Moore 1966) and follows current practice by the vast majority of modern Lepidopterists to facilitate computer data management; see van Nieukerken et al. (2019).

The name, author, and date of a species entry may be followed by one or more DESCRIPTORs; an indication of biological ORIGIN; and a MONA Number (see details below).

Subspecies entries

We have listed all valid subspecies that are known to occur in NA. We generally do not list extralimital subspecies or their synonyms. To indicate where nominate subspecies and their synonyms have been omitted, we append the DESCRIPTOR “extralim.” after the species name. Note that extralimital subspecies and their synonyms that have erroneously been reported as occurring in NA in major works since 1900 are included, indicated by the DESCRIPTOR “(excl.)” appended to the name.

Subspecies are listed below the valid species, preceded by the term “ssp.” and a letter indicating the position of the subspecies in the taxonomic sequence within the parent species. Subspecies are listed in the order in which they were presented in the most recent taxonomic revision or catalog. For many groups this represents taxonomic order, although for butterflies the subspecies follow a regional order as presented by Pelham (2022).

By definition, subspecies are problematic in that they are semantical constructs not bound to nature as succinctly as species. Thus, the choice of which to recognize, and which to treat as synonyms, is somewhat subjective. As with other aspects of the list, any deviation in subspecies status from the most recent published catalog or revision is detailed in a NOTE.

Synonym entries

Synonyms of genera, subgenera, species and subspecies are listed below the valid taxon, in italics. They are listed in alphabetical order, then alphabetically by author, and then sequentially by date. Synonyms of taxa above the genus level are not included, but names in common usage recently may be mentioned in a NOTE. We do not track the taxonomic position of synonyms of forms or varieties, or other such infrasubspecific categories; these are all treated equally as synonyms of the valid parent taxon, whether it be species or subspecies. Generally, the type of synonym is not indicated, although in a few cases we indicate preoccupied or otherwise unavailable names (most notably when the synonym was considered a valid name in Hodges et al. 1983).

We have attempted to list all available synonyms of all genera, subgenera, species, and subspecies that occur in the Nearctic region. Any exceptions to this are mentioned in a NOTE; for example, a large number of Palaearctic synonyms of the introduced butterfly species *Pieris rapae* and *Polyommatus icarus* have been excluded. Many unavailable names are listed as well, but we do not strive to list all of them, particularly for Holarctic and introduced species. We have checked extensively for synonyms in catalogs and taxonomic literature, but it has not been possible to check all names exhaustively, and we have undoubtedly missed some taxonomic acts, so the inclusion of synonyms may not be entirely consistent for Holarctic and cosmopolitan species.

Misplaced taxa

For species that definitively do not belong in their current genus, but for which a proper placement is not possible at this time, the genus is placed in double quotes, with the DESCRIPTOR “PROV. PL.” after the genus, and the DESCRIPTOR “mispl.” after the species. Details are provided in a NOTE. Taxa for which the current placement is possibly correct but is uncertain, or that is tentatively placed, simply have the details provided in a NOTE, without a DESCRIPTOR. Species that have been formally placed in a higher taxon without a clear genus designation are listed as “unplaced” within that higher taxon.

Misspellings and emendations

Published misspellings are a source of much confusion in the taxonomic literature. To help clarify, we list all such names that we are aware of that have appeared in the literature since 1900, as well as some older misspellings that continue to cause confusion (such as Chambers' many misspellings). To distinguish accidental misspellings from emendations which are intentional changes to the spelling by a subsequent author, we use the DESCRIPTORs “missp.” and “emend.”, respectively. Original misspellings that have been deemed incorrect according to the ICZN are listed with the DESCRIPTOR “orig. missp.”. Note that some accidental misspellings may be listed herein as emendations, and vice versa, because it has not always been possible to determine the intent of the author.

Misspellings and emendations are listed at the taxonomic level of synonyms, in alphabetical order with other synonyms. The author and date are the author and date of the first known instance of the incorrect spelling, not of the valid correctly spelled name. If the original instance of misspelling is unknown, the author and date are listed as “[various, no date]”. To further distinguish misspellings and unjustified emendations from formal “epithet-author-date” combinations, a semicolon is placed between the epithet and the author(s) of the misspelling. Note that the “original genus” listed is the original generic combination of the misspelling, when known.

The comprehensiveness of misspellings included in the list varies somewhat, depending upon available information; it is more complete in families for which recent published catalogs exist. Note that the spelling errors in Nomina Insecta Nearctica (Poole & Gentili 1996) are numerous and we have not listed them all.

Misidentifications and misapplications

We distinguish between misidentifications and misapplications that are based on previous taxonomic concepts; these are indicated with an appropriate DESCRIPTOR (“misid.” and “misappl.”, respectively) following the name. Both are indicated with “of authors” appended immediately after the species name to distinguish them from the correct application of the name, and are treated as synonyms of the valid, correct identification. We list misidentifications and misapplications of names that have been published in significant works since 1900, as well as some older ones that continue to cause problems.

Misidentifications are indicated where the erroneous species name is currently in the same genus as the correct name. If it is in a different genus, then the erroneous name is listed separately as an EXCLUDED species, under its current genus.

Additionally, a few valid NA names are given an extra entry as a “misapplication” under another valid name, if they have been the source of significant or ongoing nomenclatural problems. If an explanation of such a name cannot be found in the catalogs and comprehensive references that have been cited in the family text or “ID INFO” sources, a NOTE of explanation is provided. Such names are treated at the taxonomic level of synonyms, with the term “of authors” as an integral part of the species epithet, followed by a semicolon and the term “not” preceding the author name, to distinguish the incorrect usage from the correct usage of the name. Note that the “original genus” listed is the genus that the name was originally described in, not the original combination of the misapplication of the name.

In a few cases, names flagged as “misapplications” are in fact considered biological species herein for which no valid name exists. In these cases, the “species” is listed under the invalid or inappropriate name, “of authors” as described above, followed by the DESCRIPTOR “MISAPPL.” in capital letters. Appropriate details are given in a NOTE.

Phylogenetic species numbers

The original phylogenetic “P-Numbers” were developed to replace the “MONA Numbers” established by Hodges et al. (1983), which had become out of date after four decades of new species additions and advances in our understanding of higher-level relationships. The system of P-Numbers was devised by Bob Patterson for the MPG website and applied by Lafontaine & Schmidt (2010) to the Noctuoidea. Later, they were applied to the entire NA fauna (with a slightly modified superfamily scheme) by Pohl et al. (2016). They consist of a two-digit superfamily number (in smaller font), followed by a four-digit species number. The superfamily numbers were assigned following a taxonomic list of world superfamilies, numbered with intervals of two or three to allow space for future insertions and rearrangements. Within moth superfamilies,

the species are simply numbered sequentially from “0001”; the original butterfly numbers were based on the species numbers of Pelham (2008), with decimals as required for new insertions.

Since they were developed, P-Numbers have been continually updated. New species have been inserted with decimal numbers, typically using “.1” for insertions within a genus, and “.5” for insertions involving new genera. Multiple insertions are made at intervals of 0.1, or utilizing a second decimal place if necessary. Note that P-Numbers are not generally moved from a synonym to a newly recognized valid name, although in a few cases the P-Number has been moved from a misspelling (or other permanently invalid name) to the valid name. In some subsequent usage (Pohl et al. 2018; MPG 2022), the original numbers were allowed to fall out of sequence when taxa were moved to a different taxonomic position; in other cases (the Noctuoidea checklist updates by Lafontaine & Schmidt 2011, 2013a, 2015 and Schmidt et al. 2018), the numbering scheme was kept in sequence by replacing some of the original P-numbers with decimal numbers to move species to new positions within the list. We continue the latter process here, with an updated, completely sequential scheme of P-Numbers following the latest phylogenetic hypotheses and resulting taxonomic schemes.

The original P-Number scheme was designed to allow a superfamily to be renumbered without affecting the entire list. It was anticipated that this would be done occasionally, when a widely accepted new catalog or classification scheme became available for a superfamily (Pohl et al. 2016). Indeed, when the Canada–AK checklist was published by Pohl et al. (2018), the Nepticuloidea were renumbered to conform to the recent world catalog by van Nieukerken et al. (2016), and the Douglasiidae were renumbered with their own two-digit prefix to reflect the fact that they had been assigned to their own superfamily. In the current list, taxonomic changes have accumulated to the extent that it has become necessary to renumber more of the superfamilies. In addition, the superfamilies themselves have been rearranged phylogenetically, necessitating some new superfamily prefixes. To accommodate these changes, a new element is being added herein: to distinguish among different iterations of P-Numbers, we add the letter “a” between the two-digit superfamily number and the four-digit species number for any group that has been renumbered since Pohl et al. (2016). We also add the letter “a” to any new superfamily prefixes. Thus, any P-Number created since Pohl et al. (2016) will be easily recognized: it will either have an “a” in the number, and/or it will be a decimal number; all whole numbers without an “a” will be original 2016 P-Numbers. It is anticipated that if subsequent renumberings are done in future versions of the NA list, then this would be indicated with iterations “b”, “c”, etc. This will allow current and future numbering schemes to be distinguished from previous iterations of P-Numbers. We realize this adds some complexity to the numbering scheme, but we have attempted to strike a balance between the stability of numbers and the proliferation of decimals, while keeping the numbers sequential. A summary of P-Number changes at the superfamily level appears in Appendix II.

Taxon author

If none of the authors of a name is among the authors of the paper in which the taxon was described, we cite authorship in the following format: “taxon author(s), in: publication authors(s), date”. If the author of a taxon was not given in the original description, the author is placed in square brackets. Additional taxon authors that were omitted from the publication (as determined subsequently by others) are added in square brackets. No initials or abbreviations are used with author names, except in the index where a few lengthy names have been abbreviated. We have endeavored to standardize variations in spelling and use of diacritical marks in authors’ names. To distinguish taxon citations from publication citations, the taxon author(s) and publication date are separated by a comma and space whereas for publications, the author and date are separated only by a space.

Date of description

This is the date of publication of a name. The actual date of publication is not always clear and has been the source of debate and confusion related to the priority of names. In addition, the means of distinguishing the date as stated in the publication itself, from the actual publication date, has not been consistent historically; the latest recommendations of the ICZN (1999) do not follow longstanding editorial conventions (e.g., previous versions of the ICZN) and are not strictly adhered to here. In the current list, if no publication date was explicitly stated in the publication, the actual publication date as determined subsequently by others is placed in square brackets. If the actual publication date differs from that printed in the original publication,

the actual date is placed in square brackets preceding the given date without brackets. In some cases, a range of years is given. Details of publication dates can usually be found in the various taxonomic catalogs cited throughout the present list. Note, however, that these rules have been inconsistently applied, including in the various catalogs. Thus, because actual dates cannot always be verified by consulting the original works, this aspect of the present list may not be entirely accurate and consistent.

Original genus

For species-level taxa, the original genus is given after the author and date, and is placed in parentheses. Some early workers (notably Linnaeus, Fabricius, Hübner, Cramer, and Stoll) designated names as trinomials or multinomials beginning with *Papilio* or *Phalaena*, for example, "*Papilio Danaus rapae* Linnaeus, 1758". For multinomial moth names beginning with *Phalaena*, the ICZN (1957) has ruled that the generic name *Phalaena* Linnaeus, 1758, is suppressed for the purposes of the Law of Priority but not for those of the Law of Homonymy. For all multinomials beginning with *Phalaena*, we treat *Phalaena* as the original genus, with one exception: trinomial names authored by Denis & Schiffermüller, 1775. We follow Sattler & Tremewan (1984) and virtually all other Lepidopterists and recognize the secondary genus names of Denis & Schiffermüller rather than "*Phalaena*" as the original genus. For multinomial butterfly names beginning with *Papilio*, the ICZN (1954a) has ruled that the subordinate group names were not explicitly used as genera in those works, so "*Papilio*" is considered to be the original genus.

Descriptors

One or more DESCRIPTORs may follow the taxon entry, as follows:

DOMEST. – a species that occurs in NA only in domestication.

emend. – emendation; the intentional alteration of a taxon name from the original spelling. If the emendation is deemed incorrect following the provisions of the ICZN, then a semicolon is placed between the name and the author. We do not list all incorrect subsequent emendations, but we have endeavored to include all those originating since 1900, as well as older ones that have been used regularly in the past century or so.

EXCL. – indicates a species that is excluded from the list of recognized NA species. A lowercase "excl." in parentheses indicates an extralimital higher taxon, or a synonym or subspecies of an extralimital taxon that has been reported from the region in error.

EXTINCT – a species (or lowercase "extinct" in parentheses for subspecies) that no longer lives anywhere on earth.

EXTIRPATED – a species (or lowercase "extirpated" in parentheses for subspecies) that no longer occurs in the wild in NA. This descriptor is used for a few unsuccessful biocontrol introductions as well.

extralim. – extralimital; indicates a species for which the nominate subspecies does not occur in NA.

ident. uncert. – identification uncertain; a taxon that cannot currently be identified.

misappl. – indicates a misapplied name, according to current species concepts. We use the lowercase "misappl." to indicate historical usage of an incorrect name, under a previous taxonomic hypothesis. These generally did not constitute errors at the time they were published; rather they result from a subsequent change in the definition of the species. In a few cases (indicated by "MISAPPL." in capitals), we use such misapplied names for taxa that are widely recognized and treated herein as biological species, but for which no code-compliant name is available.

misid. – a misidentification in a published work.

mispl. – misplaced; indicates a taxon that clearly does not belong where it is currently placed but is provisionally retained there pending a better placement.

missp. – indicates a misspelled name. We do not exhaustively list all published misspellings; only those made since 1900, or older misspellings likely to continue to cause confusion. Where possible they have been attributed to the first instance (author, date) of the misspelling, but there may be cases where we have incorrectly attributed its origin to a later work. In some cases, the origin of a widespread misspelling is unknown and we have attributed the name to "various" authors.

N. COMB. – indicates a new taxonomic combination.
N. STAT. – indicates new taxonomic status.
N. SYN. – indicates a new synonym.
nom. dub. – nomen dubium; a doubtful name; a name that cannot be applied to an identifiable taxon based on the description and available information.
nom. nud. – nomen nudum; a name that fails to conform to the ICZN (the criteria depend on the date of description and the version of the ICZN in force at that time; it usually refers to a name without a published description). Only a few of these are indicated as such, to help explain recent nomenclatural changes.
nomen oblitum – a "forgotten name" that has been replaced by a newer name following specific provisions of the ICZN.
orig. missp. – the original spelling of a taxon that has been subsequently deemed incorrect and emended following the provisions of the ICZN. Most original misspellings have been listed, but trivial corrections such as removal of spaces, dashes, and umlauts are not given a separate line entry.
preocc. – preoccupied; indicating an unavailable junior homonym. We do not indicate all preoccupied names; only those that have recently been treated as valid (e.g., in Hodges et al. 1983).
PROV. PL. – provisional placement; indicates a taxon placed for convenience, pending better taxonomic placement. In such cases, the parent taxon is placed in quotes.
REV. COMB. – indicates a revived combination.
REV. STAT. – indicates a revived status for a taxon. This is often misinterpreted as meaning a "revised" status. However, the term refers specifically to the reinstatement of a previous status, not a revised status, which is a more general concept and is not used herein.
REV. SYN. – indicates a revised synonymy (i.e., the move of a synonym to a different valid name).
STRAY – indicates a species (or subspecies in lowercase) that has arrived in NA presumably without human intervention, but for which no established NA population is known or suspected.
UNAVAIL. – indicates a name that has not been published in accordance with ICZN rules. Indicated in lowercase for a synonym, and in uppercase for a taxon that is herein considered a biological species, but for which no available (ICZN-compliant) name exists.
UNVER. – a species (or lowercase "unver." in parentheses for subspecies) that has been reported from NA and plausibly exists in the region, but for which no verified record is known. This potentially applies to strays as well as resident species.

Biological origin

Naturally Holarctic species are indicated by "H", naturally cosmopolitan species are indicated by "C", and introduced species are indicated by "I". When the origin is unknown, "H/I" is used if the species is common to the Palaearctic and Nearctic, and "C/I" is used if it is cosmopolitan. Additionally, the designator "N/I" is used for species common to the Nearctic and Neotropics, for which the origin is unknown; either native or introduced into NA (the Neotropical designator "N" is not used alone, as that would encompass virtually all species that are common to NA and Mexico or the West Indies, and flagging them all is beyond the scope of this list). For introduced species, the origin and introduction details, if available, are given in a NOTE.

MONA Numbers

We have included the widely used species numbers (so-called "MONA Numbers") from Hodges et al. (1983) so that users familiar with that numbering scheme can locate taxa in the current scheme. The original MONA Numbers ranged from "1" to "11233". Five numbers were not used (1751, 2789, 7511, 8289, 9324), five were duplicate entries (464, 1393, 1424, 1461, 1953; omitted herein), and 56 single-digit decimal numbers were used as well, for a total of 11,279 species.

We list the MONA Numbers for species as published in Hodges et al. (1983). All taxa that were recognized as valid species in Hodges et al. (1983) are included here in some form, with the original MONA Number appearing to the right of the taxon entry, for the epithet it was originally assigned to in Hodges et al. (1983). If that taxon is no longer considered to be a valid species, the MONA Number is placed in square brackets. Note that if a species epithet was misspelled or incorrectly emended in Hodges et al. (1983), the MONA Number will be assigned herein to the incorrect spelling.

All currently valid species that were not listed as such in Hodges et al. (1983) have the value “[NEW]” in place of a MONA Number.

Some taxa listed by Hodges et al. (1983) are no longer considered to be part of the NA fauna; they are listed herein as misapplications, misidentifications or excluded species. We have not moved MONA Numbers from synonyms to current valid names, nor have we assigned decimal MONA Numbers to valid species added since Hodges et al. (1983). Users who wish to use the MONA scheme for all currently recognized NA species are referred to the Moth Photographers Group website (MPG 2022), where all valid species are given a decimal number to insert them into the MONA numbering scheme as accurately as possible given the substantial taxonomic rearrangements that have taken place in the past 40 years.

Notes

These include details on recent additions to the list, origins of introduced species, taxonomic changes, differing taxonomic interpretations, and sources of information. When other taxa are mentioned in the notes, we do not generally include authors and dates, unless required to avoid confusion, or if the species is not otherwise mentioned anywhere else in the publication. For mentions of plants, we include authors and family names.

“From every chink,
And secret corner, where they slept away
The wintry storms; or, rising from their tombs,
To higher life; by myriads, forth at once,
Swarming they pour; of all the varied hues
Their beauty-beaming parent can disclose,
Ten thousand forms, ten thousand different tribes...”

- James Thomson (The Seasons)

THE CHECKLIST

Order LEPIDOPTERA Linnaeus, 1758

Suborder ZEUGLOPTERA Chapman, 1917

Superfamily MICROPTERIGOIDEA Herrich-Schäffer, 1855

1. Family MICROPTERIGIDAE Herrich-Schäffer, 1855 (mandibulate moths)

by Jean-François Landry

Mandibulate moths are very small moths (wingspans of 10 to 15 mm) with functional mandibles. The adults are usually diurnal and are attracted to flowers to feed on pollen, which they crush with their mandibles. Larvae feed on moss and liverworts.

Worldwide, 265 species of micropterigids are known, but many undescribed species likely exist. Three species are known in the Nearctic region. These moths are extremely localized and inconspicuous, and seldom noticed by the non-specialist. As a result, the group is poorly collected, and their distribution in NA is poorly known. The family was recently revised for NA by Davis & Landry (2012).

Genus EPIMARTYRIA Walsingham, 1898

010001	E. auricrinella Walsingham, 1898 (Epimartyria)	1
010002	E. bimaculella Davis & Landry, 2012 (Epimartyria) [NEW]	
010003	E. pardella Walsingham, 1880 (Epimartyria)	2

clade ANGIOSPERMIVORA Regier et al., 2015 (all groups following)

Suborder GLOSSATA Fabricius, 1775 (all groups following)

Superfamily ERIOCRANIOIDEA Rebel, 1901

2. Family ERIOCRANIIDAE Rebel, 1901 (sparkling archaic sun moths)

by Gregory R. Pohl

Sparkling archaic sun moths are very small diurnal moths (wingspans of 10 to 15 mm) with vestigial mandibles; they are the most primitive Lepidoptera group with a proboscis. Adults of most species are brightly colored. Females have a sclerotized “oviscapt saw” which they use to insert eggs into leaf tissue. Larvae have no thoracic legs or prolegs and are leaf blotch miners, primarily on *Quercus* (Fagaceae) and *Betula* (Betulaceae) species. Their frass deposition within the mine usually consists of long threads, which is highly characteristic of the group.

Worldwide, 29 species of eriocraniids are known, 13 of which occur in the Nearctic region. The family was revised by Davis (1978a), and no subsequent changes have been made to the Nearctic fauna at the species level except for the addition of a new species by Davis & Faeth (1986).

Genus DYSERIOCRANIA Spuler, 1910
MNEMONICA Meyrick, 1912

070001 D. griseocapitella (Walsingham, 1898) (Eriocrania) 3
auricrinella of authors; not Fracker, 1930 (Dyseriocrania) misappl.
070002 D. auricyanea (Walsingham, 1882) (Micropteryx) 4
cyanosparsella (Williams, 1908) (Eriocrania)

Genus ERIOCRANIA Zeller, 1851

070003 E. semipurpurella (Stephens, 1834) (Lampronia) 5
ssp. a. semipurpurella (Stephens, 1834) (Lampronia)
amentella (Zeller, 1850) (Micropteryx)
inconspicuella (Wood, 1890) (Micropteryx)
ssp. b. pacifica Davis, 1978 (Eriocrania)
070004 E. breviapex Davis, 1978 (Eriocrania) 6

Genus ERIOCRANIELLA Viette, 1949

Subgenus ERIOCRANIELLA Viette, 1949

070005 E. aurosparsella (Walsingham, 1880) (Micropteryx) 7
070006 E. xanthocara Davis, 1978 (Eriocraniella) 8
070007 E. longifurcula Davis, 1978 (Eriocraniella) 9
070008 E. platyptera Davis, 1978 (Eriocraniella) 10

Subgenus DISFURCULA Davis, 1978

070009 E. variegata Davis, 1978 (Eriocraniella) 11
070010 E. trigona Davis, 1978 (Eriocraniella) 12
070011 E. falcata Davis, 1978 (Eriocraniella) 13
070012 E. mediabulla Davis & Faeth, 1986 (Eriocraniella) [NEW]

Genus NEOCRANIA Davis, 1978

070013 N. bifasciata Davis, 1978 (Neocrania) 14

Superfamily NEOPSEUSTOIDEA Hering, 1925

3. Family ACANTHOPTEROCTETIDAE Davis, 1978

by Gregory R. Pohl

Acanthopteroctetids are very small moths (wingspans of 10 to 16 mm), most of which are dull-colored and resemble caddisflies. They can be separated from most other moths by the presence of both vestigial mandibles and a proboscis. They differ from other mandibulate moths by several features of the genitalia and internal anatomy, and they have narrower wings than micropterigids and eriocraniids. Larvae are leaf miners and have three pairs of thoracic legs and a single pair of prolegs on the tenth abdominal segment. This is a small group that is rarely collected and poorly known.

This family was separated from the Eriocraniidae by Davis (1978a), and treated as a sister family in the Eriocranioidea. Since then, the family has been placed in various positions among the primitive Lepidoptera (Regier et al. 2015a). The latest molecular-based analyses have placed the group in the Neopseustoidea, as the sister to either the Heteroneura (Regier et al. 2015b) or the Eriocranioidea (Bazinet et al. 2016).

Worldwide, eight species of acanthopteroctetids are known, four of which occur in the Nearctic region. The family was revised by Davis (1978a), and no changes have been made to the Nearctic fauna at the species level since then, except for the addition of a new species by Davis (1984).

Genus ACANTHOPTEROCTETES Braun, 1921

09a0001	A. tripunctata Braun, 1921 (Acanthopteroctetes)	15
	tripunctella; Davis, 1969 (Acanthopteroctetes) missp.	
09a0002	A. bimaculata Davis, 1969 (Acanthopteroctetes)	16
09a0003	A. unifascia Davis, 1978 (Acanthopteroctetes)	17
09a0004	A. aurulenta Davis, 1984 (Acanthopteroctetes)	[NEW]

Superfamily HEPIALOIDEA Stephens, [1828]

4. Family HEPIALIDAE Stephens, [1828] (ghost moths)

by John R. Grehan & Carlos G. C. Mielke

In NA, ghost moths are medium-sized to very large moths, ranging in size from 25 to 100 mm. The presence of some derived morphological structures supports the Hepialidae as probably monophyletic (Simonsen 2018). They can usually be recognized by their tentlike resting posture, lack of a distinct forewing tornus and an acutely angled forewing apex combined with absence of a proboscis, homoneurous venation, and short (in NA) antennae. Larvae of most NA species are subterranean root feeders, while some feed or tunnel in both roots and stems, and a few species include ferns and mosses as food sources (McCabe & Wagner 1989; Wagner 1989; Grehan 1993; Strong et al. 1995; Grehan et al. 2018).

The biogeographic and evolutionary history of NA hepialids has not yet been studied in detail, and phylogenetic resolution of generic relationships within the family is fragmentary and preliminary (Grehan 2012a, b; Simonsen 2018). The restriction of NA genera to the north of Mexico in the New World and north of central Asia in the Old World may be a consequence of a Laurasian ancestral range (Grehan & Knyazev 2019). The absence of Hepialidae or lack of species diversity in midwestern NA may be due to a lack of subsequent range expansion following regression of the former Cretaceous inland sea (Grehan & Mielke 2018).

The NA Hepialidae fauna comprises 19 species, of which 17 were listed by Davis (in Hodges et al. 1983). It represents a very small fragment of the approximately 700 species known globally (Grehan & Mielke 2018). No modern revisions have been published on NA groups.

Genus GAZORYCTRA Hübner, [1820]

ID INFO: Barnes & Benjamin (1925); also Wagner & Tindale (1988), Grehan & Mielke (2020).

EPIALUS Lederer, 1852
EPIALUS Fabricius, 1775

110001 G. hyperboreus (Möschler, 1862) (Epialus) 23
110002 G. sciophanes (Ferguson, 1979) (Hepialus) 23.1
110003 G. confusus (Edwards, [1885] 1884) (Hepialus) 24
110004 G. roseicaput (Neumoegen & Dyar, 1893) (Hepialus) 25
demutatus (Barnes & Benjamin, [1926] 1925) (Hepialus)
mutatus (Barnes & Benjamin, [1926] 1925) (Hepialus)
110005 G. pulcher (Grote, [1865] 1864) (Hepialus) 26
110006 G. mcglashani (Edwards, 1886) (Hepialus) 27
110007 G. mathewi (Edwards, 1874) (Epialus) 28
110008 G. novigannus (Barnes & Benjamin, [1926] 1925) (Hepialus) 29
mackiei (Barnes & Benjamin, [1926] 1925) (Hepialus)
110009 G. wielgusi Wagner & Tindale, 1988 (Gazoryctra) [NEW]
110010 G. lembertii (Dyar, 1894) (Hepialus) 32

Genus KORSCHELTELLUS Börner, 1920

110011 K. gracilis (Grote, [1865]) (Hepialus) 31
furcatus (Grote, 1883) (Hepialus)
labradoriensis (Packard, [1865] 1864) (Hepialus)
mustelinus (Packard, [1865] 1864) (Hepialus) *[30]*
NOTE: Synonymy of K. mustelinus by Wagner (1988).
110012 K. lupulina (Linnaeus, 1758) (Phalaena) I [NEW]
NOTE: Introduced from Europe (Grehan & Landry 2018). The oldest records are from IN in the 1950s, but the species has not since been seen there; records have been restricted to southern ON in recent decades (BugGuide 2022), apart from a record at Niagara Falls, NY (iNaturalist.org).
albomarginata (Cockayne, 1955) (Hepialus)
anteradiata Lempke, 1961 (Korscheltellus)
continuata (van de Pol, 1961) (Hepialus)
cora (Schrank, 1801) (Hepialus)
dacicus (Caradja, 1893) (Hepialus)
espanoli Pérez de Gregorio, 1981 (Korscheltellus)
flina (Hübner, [1808]) (Bombyx)
fuscata (van de Pol, 1961) (Hepialus)
fuscus (Haworth, 1809) (Hepialus)
incerta (Millière, 1886) (Psilothrix)
intermedia (Spuler, 1910) (Hepialus)
latemarginatus (Bytinski-Salz, 1939) (Hepialus)
lupulator (Haworth, 1802) (Hepialus)
maculata (van de Pol, 1961) (Hepialus)
nigrescens (Cockayne, 1955) (Hepialus)
obliquator (Haworth, 1802) (Hepialus)
obliquus (Fabricius, 1794) (Hepialus)
obscura (van de Pol, 1961) (Hepialus)
pallida Lempke, 1961 (Korscheltellus)
pauper (van de Pol, 1961) (Hepialus)
reducta (van de Pol, 1961) (Hepialus)
senex (Pfitzner, 1912) (Hepialus)
serraticornis (Gmelin, [1790]) (Hepialus)
unicolor (Spuler, 1910) (Hepialus)
variegata (van de Pol, 1961) (Hepialus)

Genus PHYMATOPUS Wallengren, 1869

110013 P. behrensii (Stretch, 1872) (Sthenopis) emend. 33
NOTE: The original misspelling "*behrnsii*" was corrected on p. 240 of the same paper. The name has been incorrectly spelled "*behrensi*" by many authors since.
anceps (Edwards, 1881) (Hepialus)
behrensi; (McDunnough, 1938) (Hepialus) emend.
behrnsii; (Stretch, 1872) (Sthenopis) orig. missp.
desolatus (Strecker, 1875) (Hepialus)
montana (Stretch, 1872) (Sthenopis) *[34]*
NOTE: Synonymized with *behrensii* by Nielsen et al. (2000).
tacomae (Edwards, 1874) (Epialus)
110014 P. californicus (Boisduval, 1868) (Hepialus) 35
baroni (Behrens, 1876) (Hepialus)
mendocinolus (Behrens, 1876) (Hepialus)
rectus (Edwards, 1881) (Hepialus)
sequoiolus (Behrens, 1876) (Hepialus)
110015 P. hectoides (Boisduval, 1868) (Hepialus) 36
inutilis (Edwards, 1881) (Hepialus)
lenzi (Behrens, 1876) (Hepialus)
modestus (Edwards, 1873) (Epialus)
sangaris (Strecker, 1878) (Hepialus)

Genus STHENOPIS Packard, [1865] 1864

110016 S. argenteomaculatus (Harris, 1841) (Hepiolus [sic]) 18
alni (Kellicott, 1885) (Cossus)
argentata Packard, [1865] 1864 (Sthenopis)
los (Strecker, 1893) (Hepialus)
perdita Dyar, 1893 (Sthenopis)
110017 S. purpurascens (Packard, 1863) (Gorgopis) 19
quadriguttatus (Grote, 1864) (Gorgopis) *[20]*
NOTE: Synonymized with *purpurascens* by Nielsen et al. (2000).
semiauratus Neumoegen & Dyar, 1893 (Sthenopis)

110018 S. thule (Strecker, 1875) (Hepialus) 21

110019.1 S. pretiosus (Herrich-Schäffer, [1856] 1855) (Epiolus [sic]) [NEW]

NOTE: Synonymy of *auratus* and *eldorado* by Mielke & Grehan (2016).

auratus (Grote, 1878) (Hepialus) *[22]*

eldorado (Pfitzner, 1906) (Phassus)

Infraorder HETERONEURA Tillyard, 1918 (all groups following)

Superfamily NEPTICULOIDEA Stainton, 1854

5. Family NEPTICULIDAE Stainton, 1854 (pygmy moths)

by Erik J. van Nieukerken & Charles S. Eiseman

Pygmy moths are amongst the smallest moths, with wingspans ranging from 3 to 10 mm. The adult head has the frons and vertex covered with erect piliform scales, an enlarged antennal scape that covers the eye when the moth is at rest (eye-cap), and a collar consisting of piliform or lamellar scales. The forewing color pattern is usually simple; many species have one or two pale fasciae, often metallic. Nepticulid larvae are legless and flattened, with a wedge-shaped head capsule; most lie belly-up in the mine, except species in core *Stigmella* (as defined by Doorenweerd et al. (2016)). Most are leaf miners on woody dicots, but a few mine herbaceous plants, and several *Acalyptris* species are specialists on the monocot family Cyperaceae (sedges). *Zimmermannia* species mine bark of trees, especially oaks; *Etainia* species feed in shoots or the samaras (fruits) of maples (*Acer* spp.; Sapindaceae) and Ericaceae; and a few others are gall inducers, including *Ectoedemia populella* on aspen (*Populus* spp.; Salicaceae). The dense, flattened, oval cocoons are usually spun in the soil or in leaf litter, although a few species make cocoons inside the leaf mine or on the leaves of the plant. Most nepticulid species are highly host-specific.

Doorenweerd et al. (2016) presented a molecular phylogeny that also formed the basis for a new classification in the global catalog (van Nieukerken et al. 2016) on which the present list is based; the phylogenetic numbers herein largely follow that sequence (adapted for NA) rather than Pohl et al. (2016).

Worldwide, about 960 species have been described (860 listed by van Nieukerken et al. 2016 and ca. 100 described since), with many more remaining to be discovered (Doorenweerd et al. 2016). So far, 97 named species have been reported in the Nearctic region (including one that is probably extinct), and we estimate that at least that many new species await description. The group is poorly collected, and the distribution of many species is incompletely known. The Nearctic Nepticulidae were revised by the group of Wilkinson (Wilkinson 1979; Wilkinson & Scoble 1979; Wilkinson 1981; Wilkinson & Newton 1981; Newton & Wilkinson 1982), but those papers are largely out of date. Since then just one new species has been described (Wagner 1987), but 11 Holarctic or introduced Palaearctic species have been added to the Nearctic fauna (van Nieukerken et al. 2016; van Nieukerken et al. 2018; van Nieukerken, in: Pohl et al. 2018). Many new synonymies and new generic combinations were made in the global catalog (van Nieukerken et al. 2016). Van Nieukerken (1986) published a key to genera. Keys to the leaf mines have been provided by Eiseman (2022).

Genus ENTEUCHA Meyrick, 1915
ARTAVERSALA Davis, 1978
JOHANSSONIA Borkowski, 1972
JOHANSSONIELLA Koçak, 1981
MANONEURA Davis, 1979
OLIGONEURA Davis, 1978

16a0001 E. basidactyla (Davis, 1978) (Oligoneura) 117
16a0002 E. gilvafascia (Davis, 1978) (Artaversala) 118

Genus STIGMELLA Schrank, 1802
ID INFO (partial): Newton & Wilkinson (1982).
ASTIGMELLA Puplesis, 1984
DYSNEPTICULA Börner, 1925
NEPTICULA Heyden, 1843

Stigmella – non-core species van Nieukerken, Doorenweerd, Hoare & Davis, 2016

[Stigmella – non-core species ungrouped]

16a0003 S. resplendensella (Chambers, 1875) (Nepticula) 111
16a0004 S. unifasciella (Chambers, 1875) (Nepticula) 96

Stigmella prunifoliella group Newton & Wilkinson, 1982

16a0005 S. ceanothi (Braun, 1910) (Nepticula) 71
16a0006 S. cerea (Braun, 1917) (Nepticula) 77
16a0006.1 S. gossypii (Forbes & Leonard, 1930) (Nepticula) 76
16a0007 S. intermedia (Braun, 1917) (Nepticula) 72
NOTE: DNA barcodes suggest that there are two species involved.

16a0008 S. prunifoliella (Clemens, [1862]) (Nepticula) 70
bifasciella (Clemens, 1862) (Nepticula)
serotinaeella (Chambers, 1873) (Nepticula)
16a0009 S. rhoifoliella (Braun, 1912) (Nepticula) 73
NOTE: DNA barcodes suggest that there are two species involved.

Stigmella ulmivora group Johansson, 1971

16a0010.1 S. multispicata Rocienė & Stonis, 2014 (Stigmella) I [NEW]
NOTE: An Eastern Palaearctic miner of *Ulmus* (Ulmaceae) that recently invaded eastern NA (van Nieukerken et al. 2018).

Stigmella saginella group Wilkinson & Scoble, 1979

16a0011 S. castaneaefoliella (Chambers, 1875) (Nepticula) 90
16a0012 S. flavipedella (Braun, 1914) (Nepticula) 91
16a0013 S. macrocarpae (Freeman, 1967) (Nepticula) [NEW]
latifasciella (Chambers, 1878) (Nepticula) preocc. [88]
16a0014 S. nigriverticella (Chambers, 1875) (Nepticula) 89
maculosella (Chambers, 1880) (Nepticula)
16a0015 S. saginella (Clemens, [1862]) (Nepticula) 87
fuscocapitella (Chambers, 1873) (Nepticula)
quercicastanella (Chambers, 1873) (Nepticula)
16a0016 S. sclerostylota Newton & Wilkinson, 1982 (Stigmella) [NEW]

Stigmella betulicola group Johansson, 1971

16a0017 S. betulicola (Stainton, 1856) (Nepticula) H [NEW]
NOTE: Reported as new for NA by van Nieukerken (in: Pohl et al. 2018).

betulicolella (Doubleday, 1859) (Nepticula)
nanivora (Petersen, 1930) (Nepticula)

16a0019 S. caryaefoliella (Clemens, [1862]) (Nepticula) [NEW]
NOTE: Braun (1912) incorrectly synonymized *S. caryaefoliella* with *S. juglandifoliella*. Unfortunately, the latter name was until recently incorrectly used in the literature for the pest of pecan, *Carya illinoensis* (Wangenh.) K.Koch (Juglandaceae) (e.g., Heyerdahl & Dutcher 1985). Wilkinson & Scoble (1979) incorrectly synonymized it with *S. ostryaefoliella*, but both this and *S. juglandifoliella* are well separated species (van Nieukerken et al. 2016). Apart from *S. caryaefoliella*, a yet unnamed *Stigmella* species also occurs on *Carya*.
juglandifoliella of authors; (not Clemens, [1862]) (Nepticula) misid.
ostryaefoliella of authors; (not Clemens, [1862]) (Nepticula) misid.

16a0020 S. corylifoliella (Clemens, [1862]) (Nepticula) 92
exasperata (Braun, 1930) (Nepticula)
minimella (Chambers, 1873) (Nepticula)
opulifoliella (Braun, 1914) (Nepticula)
paludicola (Braun, 1917) (Nepticula)
virginiella (Clemens, [1862]) (Nepticula)

16a0021 S. juglandifoliella (Clemens, [1862]) (Nepticula) 95

16a0022 S. longisacca Newton & Wilkinson, 1982 (Stigmella) [NEW]

16a0022.1 S. microtheriella (Stainton, 1854) (Nepticula) I [NEW]
NOTE: Introduced European species recently reported from NA by Eiseman & van Nieukerken (2015) and van Nieukerken (in Pohl et al. 2018).
cathepostis Kemperman & Wilkinson, 1985 (Stigmella)

16a0023 S. myricafoliella (Busck, 1900) (Nepticula) 94
obscurella (Braun, 1912) (Nepticula)

16a0024 S. ostryaefoliella (Clemens, [1862]) (Nepticula) 93

Stigmella – core species van Nieukerken, Doorenweerd, Hoare & Davis, 2016

Stigmella tiliella group Puplesis et al., 2002

16a0025 S. tiliella (Braun, 1912) (Nepticula) 98

Stigmella rhamnella group van Nieukerken et al., 2016

16a0026 S. condaliafoliella (Busck, 1900) (Nepticula) 97

16a0027 S. diffasciae (Braun, 1910) (Nepticula) 75

16a0028 S. inconspicuella Newton & Wilkinson, 1982 (Stigmella) [NEW]

16a0029 S. rhamnicola (Braun, 1916) (Nepticula) 74
rhamnella (Braun, 1912) (Nepticula) preocc.

Stigmella sanguisorbae group van Nieukerken, 1986

16a0030 S. rosaefoliella (Clemens, [1862]) (Nepticula) 78
NOTE: Illustrations of the genitalia by Wilkinson & Scoble (1979) are not of this species, but of *S. centifoliella*.

Stigmella lapponica group Johansson, 1971

16a0030.1 S. braunella (Jones, 1933) (Nepticula) 104

16a0031 S. confusella (Wood & Walsingham, 1894) (Nepticula) H [NEW]
NOTE: Reported as new for NA by van Nieukerken (in Pohl et al. 2018).

16a0032 S. lapponica (Wocke, 1862) (Nepticula) H [NEW]
NOTE: Reported as new for NA by van Nieukerken (in Pohl et al. 2018).
lapponicella (Herrich-Schäffer, 1862) (Nepticula)
lusatica (Schütze, 1905) (Nepticula)
vossensis (Grønlien, 1928) (Nepticula)

16a0034 S. slingerlandella (Kearfott, 1908) (Nepticula) 79

Stigmella salicis group Johansson, 1971

16a0037 S. fuscotibiella (Clemens, 1862) (Nepticula) 82
ciliaefuscella (Chambers, 1873) (Nepticula)
discolorella (Braun, 1912) (Nepticula)
furcotibiella; (Riley, 1891) (Nepticula) missp.

16a0038 S. pallida (Braun, 1912) (Nepticula) 86

16a0039 S. populetorum (Frey & Boll, 1878) (Nepticula) 84
aromella Wilkinson & Scoble, 1979 (Stigmella)
N. SYN. *[85]*
NOTE: New synonymy based on the fact that the scent organs that define *S. aromella* are deciduous, likely present in all males of *populetorum*, but often lost during preparation. Otherwise no differences were noted in adults, genitalia, leaf mines or DNA barcodes.

16a0039.1 S. salicis (Stainton, 1854) (Nepticula) H [NEW]
NOTE: Reported as new for NA by van Nieukerken (in Pohl et al. 2018).
auritella (Skala, 1939) (Nepticula)
dewitziella (Sorhagen, 1885) (Nepticula)
salicella (Herrich-Schäffer, 1855) (Nepticula)
salicivorella (Doubleday, 1859) (Nepticula)

Stigmella quercipulchella group Wilkinson & Scoble, 1979

16a0040 S. altella (Braun, 1914) (Nepticula) 101

16a0041 S. quercipulchella (Chambers, 1878) (Nepticula) 99
terminella (Braun, 1914) (Nepticula)

16a0042 S. variella (Braun, 1910) (Nepticula) 100

Stigmella anomalella group Johansson, 1971

16a0043 S. anomalella (Goeze, 1783) (Phalaena) I [NEW]
NOTE: Introduced European species reported as new for NA by van Nieukerken (in Pohl et al. 2018).
aeneella (Heinemann, 1862) (Nepticula)
caulescentella Klimesch, 1948 (Stigmella)
fletcheri (Tutt, 1899) (Nepticula)
grisea rosae (Retzius, 1783) (Phalaena) unavail.
NOTE: This taxon was described as a trinomen and is unavailable (ICZN 2014).
helbigi (Hartig, 1941) (Nepticula)
laticuniculella (Sauber, 1904) (Nepticula)
pacifica Puplesis, 1987 (Stigmella)
penicilla (Thunberg, 1794) (Tinea)
rosarum (Sorhagen, 1922) (Nepticula)
rosella (Schrank, 1802) (Tinea)
rubicurrens Walsingham, 1908 (Stigmella)
zermattensis (Weber, 1936) (Nepticula)

16a0044 S. centifoliella (Zeller, 1848) (Nepticula) I [NEW]
NOTE: This introduced European species that feeds on roses (*Rosa* spp.; Rosaceae) was mistaken earlier for the native *S. rosaefoliella* and described as the subspecies *pectocatenata* (Wilkinson & Scoble 1979, Newton & Wilkinson 1982).
hodgkinsoni (Stainton, 1884) (Nepticula)
pectocatena Wilkinson & Scoble, 1979 (Stigmella)

Stigmella hybnerella group Johansson, 1971

16a0046 S. stigmaciella Wilkinson & Scoble, 1979 (Stigmella) 68

16a0046.1 S. taeniola (Braun, 1925) (Nepticula) 69

Stigmella oxyacanthella group Johansson, 1971

16a0049 S. amelanchierella (Clemens, [1862]) (Nepticula) 106

16a0050 S. crataegifoliella (Clemens, [1862]) (Nepticula) 62

16a0051 S. heteromelis Newton & Wilkinson, 1982 (Stigmella) [NEW]

16a0051.1 S. minusculella (Herrich-Schäffer, 1855) (Nepticula) I [NEW]
NOTE: This introduced European species was first described as native *Nepticula chalybeia*, until synonymized by Schoorl et al. (1985).
chalybeia (Braun, 1914) (Nepticula) *[65]*
embonella (Klimesch, 1978) (Nepticula)

16a0051.2 S. oxyacanthella (Stainton, 1854) (Nepticula) I [NEW]
NOTE: On the basis of DNA barcodes it was realized that *S. pomivorella* is the same as the European *oxyacanthella* which apparently had been introduced long ago (van Nieukerken et al. 2016).
aeneella of authors; (not Heinemann, 1862) (Nepticula) misid.
cotoneastri (Sorhagen, 1922) (Nepticula)
oxyacanthaecolella (Doubleday, 1859) (Nepticula)
pomivorella (Packard, 1870) (Micropteryx) *[64]*

16a0052 S. purpuratella (Braun, 1917) (Nepticula) 67
scinanella Wilkinson & Scoble, 1979 (Stigmella) *[66]*

16a0053 S. scintillans (Braun, 1917) (Nepticula) 63

Stigmella argentifasciella group van Nieukerken et al., 2016

16a0054 S. argentifasciella (Braun, 1912) (Nepticula) 105

Stigmella aurella group Johansson, 1971

16a0055 S. villosella (Clemens, [1862]) (Nepticula) 80
dallasiana (Frey & Boll, 1876) (Nepticula)

Stigmella lemniscella group van Nieukerken et al., 2016

16a0056 S. apicialbella (Chambers, 1873) (Nepticula) 81
leucostigma (Braun, 1912) (Nepticula)

Stigmella ruficapitella group (sensu lato) Johansson, 1971

16a0057 S. alba Wilkinson & Scoble, 1979 (Stigmella) 103
16a0058 S. procrastinella (Braun, 1927) (Nepticula) 102

Stigmella barbata group Puplesis et al., 2002

16a0059 S. plumosetaeella Newton & Wilkinson, 1982 (Stigmella) [NEW]

Genus BOHEMANNIA Stainton, 1859
SCOLIAULA Meyrick, 1895

16a0060 B. pulverosella (Stainton, 1849) (Trifurcula) I [NEW]
NOTE: Introduced European species reported as new for NA by van Nieukerken (in Pohl et al. 2018).
cineretella (Frey, in: Herrich-Schäffer, 1855) (Nepticula)
piotra Puplesis, 1984 (Bohemannia)

Genus GLAUCOLEPIS Braun, 1917
ID INFO: Wilkinson (1979).
NOTE: Historically considered a subgenus of *Trifurcula* Zeller, 1848.
FEDALMIA Beirne, 1945
SINOPTICULA Yang, 1989

Glaucolepis saccharella group van Nieukerken et al., 2016

16a0061 G. saccharella (Braun, 1912) (Nepticula) 59

Genus FOMORIA Beirne, 1945
ID INFO: Wilkinson (1979).
NOTE: Historically considered a subgenus of *Ectoedemia*.

Fomoria weaveri group Puplesis, 1994

16a0064 F. hypericella (Braun, 1925) (Nepticula) 61
16a0065 F. pteliaeella (Chambers, 1880) (Nepticula) 60
16a0065.1 F. septembrella (Stainton, 1849) (Nepticula) I [NEW]
NOTE: Introduced European species recently reported as new for NA, based on one Canadian specimen (van Nieukerken, in: Pohl et al. 2018) and on populations discovered by David Wagner in WA (Whatcom Co., Bellingham; and Thurston Co., Lacey) as leaf miners on introduced *Hypericum perforatum* L. (Hypericaceae). Also recorded from NA in BugGuide.
16a0065.2 F. weaveri (Stainton, 1855) (Nepticula) H [NEW]
NOTE: Reported as new to NA based on records in northern AB by Macaulay & Pohl (2005).
weaverella (Doubleday, 1859) (Nepticula)

Genus ETAINIA Beirne, 1945
ID INFO: Wilkinson (1979).
NOTE: Historically considered a subgenus of *Ectoedemia*.
OBRUSSA Braun, 1915

16a0066 E. albibimaculella of authors; (not Larsen, 1927) (Nepticula) MISAPPL. [NEW]
NOTE: The Canadian record by van Nieukerken (in Pohl et al. 2018), as a provisional record, is a misidentification of an unnamed species.
16a0068 E. ochrefasciella (Chambers, 1873) (Nepticula) 37
16a0068.1 E. sericopeza (Zeller, 1839) (Lyonetia) I 38
NOTE: Introduced from Europe (Drooz 1985).
acerella (Goureau, 1860) (Nepticula)
maryella (Duponchel, 1843) (Tinea)
sericopezella (Duponchel, 1843) (Oecophora)

Genus ACALYPTRIS Meyrick, 1921
ID INFO: Wilkinson (1979).
MICROCALYPTRIS Braun, 1925
NIEPELTIA Strand, 1934
WEBERIA Müller-Rutz, 1934 preocc.
WEBERINA Müller-Rutz, 1934

Acalyptris scirpi group van Nieukerken et al., 2016

16a0069 A. bicornutus (Davis, 1978) (Microcalyptris) [NEW]
bircornutus; (Davis & Wilkinson, 1983) (Microcalyptris) missp. *[113]*
16a0070 A. bipinnatellus (Wilkinson, 1979) (Microcalyptris) [NEW]
16a0071 A. lotella (Wagner, 1987) (Microcalyptris) [NEW]
16a0072 A. punctulata (Braun, 1910) (Nepticula) 114
16a0073 A. scirpi (Braun, 1925) (Nepticula) 116
16a0075 A. tenuijuxtus (Davis, 1978) (Microcalyptris) 115
16a0075.1 A. thoracealbella (Chambers, 1873) (Nepticula) 112
badiocapitella (Chambers, 1876) (Nepticula)

[Acalyptris ungrouped]

16a0077 A. postalatratus (Wilkinson, 1979) (Microcalyptris) [NEW]

Genus "ACALYPTRIS" Meyrick, 1921 PROV. PL.

16a0077.1 A. distaleus (Wilkinson, 1979) (Microcalyptris) mispl. [NEW]
NOTE: This species is misplaced in *Acalyptris*.

Genus ZIMMERMANNIA Hering, 1940
ID INFO: Wilkinson & Newton (1981).
NOTE: Historically considered a subgenus of *Ectoedemia*, or as the *Ectoedemia castaneae* species group Wilkinson & Newton, 1981.

16a0078 Z. bosquella (Chambers, 1878) (Nepticula) [NEW]
bosqueella; (Chambers, 1878) (Nepticula) missp.
castaneae (Busck, 1913) (Ectoedemia) *[56]*
heinrichi (Busck, 1914) (Ectoedemia) *[55]*
helenella (Wilkinson, 1981) (Ectoedemia)
obrutella of Wilkinson & Scoble, 1981; (not Zeller, 1873) (Trifurcula) misappl.
16a0079 Z. grandisella (Chambers, 1880) (Nepticula) 109
acanthella (Wilkinson & Newton, 1981) (Ectoedemia)
chloranthis; (van Nieukerken, 2018) (Ectoedemia) missp.
chlorantis (Meyrick, 1928) (Ectoedemia) *[54]*
16a0080 Z. mesoloba (Davis, 1978) (Ectoedemia) 58
coruscella (Wilkinson, 1981) (Ectoedemia)
16a0081 Z. obrutella (Zeller, 1873) (Trifurcula) 53
piperella (Wilkinson & Newton, 1981) (Ectoedemia)
reneella (Wilkinson, 1981) (Ectoedemia)
16a0082X Z. phleophaga (Busck, 1914) (Ectoedemia) EXTINCT? 57
NOTE: This species is almost certainly extinct; it was a barkminer of American Chestnut trees (*Castanea dentata* (Marsh.) Borkh.; Fagaceae). We have not seen any recent specimens.

Genus ECTOEDEMIA Busck, 1907
ID INFO: Wilkinson & Newton (1981), Wilkinson (1981).
DECHTIRIA Beirne, 1945

Ectoedemia populella group Wilkinson & Newton, 1981

16a0083 E. populella Busck, 1907 (Ectoedemia) 52
16a0084 E. canutus Wilkinson & Scoble, 1979 (Ectoedemia) 40
16a0085 E. argyropeza (Zeller, 1839) (Lyonetia) I 39
NOTE: Introduced from Europe (van Nieukerken et al. 2016).
apicella (Stainton, 1854) (Nepticula)
argyropezella (Duponchel, 1844) (Lyonetia)
downesi Wilkinson & Scoble, 1979 (Ectoedemia)
simplicella (Heinemann, 1862) (Nepticula)
turbulentella (Wocke, 1861) (Nepticula)

Ectoedemia subbimaculella group – satellite taxa Doorenweerd et al., 2015

16a0086 E. trinotata (Braun, 1914) (Nepticula) 41
16a0087 E. quadrinotata (Braun, 1917) (Nepticula) 51

Ectoedemia platanella group Wilkinson & Newton, 1981

16a0088 E. similella (Braun, 1917) (Nepticula) 45
16a0089 E. platanella (Clemens, [1862]) (Nepticula) 43
maximella (Chambers, 1873) (Nepticula)
16a0090 E. clemensella (Chambers, 1873) (Nepticula) 44
16a0091 E. virgulae (Braun, 1927) (Nepticula) 46

Ectoedemia angulifasciella group Wilkinson et al., 1983

16a0092 E. marmaropa (Braun, 1925) (Nepticula) 42
16a0093 E. nyssaefoliella (Chambers, 1880) (Nepticula) 50
16a0094 E. minimella (Zetterstedt, 1839) (Elachista) H [NEW]
canadensis (Braun, 1917) (Nepticula) *[83]*
mediofasciella of authors; (not Haworth, 1828) (Tinea) misappl.
viridicola (Weber, 1938) (Nepticula)
woolhopiella (Stainton, 1887) (Nepticula)
16a0095 E. occultella (Linnaeus, 1767) (Phalaena) H [NEW]
NOTE: The NA form was previously regarded as the separate species *E. lindquisti*, but van Nieukerken et al. (2016) saw no reason to treat NA populations differently from Palaearctic ones.
argentipedella (Zeller, 1839) (Lyonetia)
flexuosella (Fologne, 1859) (Nepticula)

lindquisti (Freeman, 1962) (Nepticula) *[47]*
mediofasciella (Haworth, 1828) (Tinea)
mucidella (Hübner, 1817) (Tinea)
strigilella (Thunberg, 1794) (Tinea)

16a0096 E. rubifoliella (Clemens, 1860) (Nepticula) 48

16a0097 E. ulmella (Braun, 1912) (Nepticula) 49
andrella Wilkinson, 1981 (Ectoedemia)

Genus "NEPTICULA" von Heyden, 1843 PROV. PL.

NOTE: Nepticula is a synonym of *Stigmella*, but we use the genus here for two species that were described in *Nepticula* and cannot be placed to a valid genus.

16a0098e N. anguinella Clemens, [1862] (Nepticula)
EXCL.; mispl.; nom. dub. 107
NOTE: *Nepticula anguinella* was described on the basis of incomplete leaf mines on oaks (*Quercus* spp.; Fagaceae). The identity can not be established, but most likely is a known species of *Stigmella* (van Nieukerken et al. 2016). Its treatment as *Ectoedemia* by Wilkinson (1981) was incorrect.

16a0099e N. platea Clemens, [1862] (Nepticula)
EXCL.; mispl.; nom. dub. 110
NOTE: *Nepticula platea* was described on the basis of incomplete leaf mines on oaks (*Quercus* spp.; Fagaceae). The identity can not be established, but most likely is a known species of *Stigmella* (van Nieukerken et al. 2016). Its treatment as *Ectoedemia* by Wilkinson (1981) was incorrect.

6. Family OPOSTEGIDAE Meyrick, 1893 (white eye-cap moths)

by Erik J. van Nieukerken & Charles S. Eiseman

White eye-cap moths are very small moths, with wingspans typically from 6 to 12 mm. The head has a small frontal tuft of hair-scales, a smooth collar, and the scapes are enlarged into large eye-caps. The whole moth is predominantly white with various brown or black dots and chevrons, although some species are variable and have both white and brown forms, such as *Pseudopostega cretea*. The male genitalia possess characteristic pectinifers, comparable to those in several Adeloidea. Apomorphies for Opostegidae include the ascoid sensilla on the antenna; the forewing with an unbranched radial vein and the male forewing without a frenulum. The family is divided into seven genera; a phylogeny based on morphological characters was presented by Davis & Stonis (2007).

Biology and immatures are poorly known. In NA, only the biology of *Opostegoides scioterma* has been described in detail; it is a miner of the cambium in stems of *Ribes* (Grossulariaceae) (Davis & Stonis 2007). All three European species of *Pseudopostega* are associated with Lamiaceae, and at least some NA species also feed on hosts of this family. In the midwestern and northeastern USA, an undescribed species has been reared from *Agastache* (van der Linden 2021), and possible *Pseudopostega* mines have been found on *Lycopus*, *Monarda*, and *Pycnanthemum* (Eiseman et al. 2017a; Eiseman 2022). Opostegid larvae are legless, very long, white, and have a characteristically shaped head capsule. They make long narrow mines in stems, gradually going deeper inside the stem. Only a few leafmining species are known.

About 190 species of opostegids are known worldwide (van Nieukerken et al. 2016), with the largest diversity in the Neotropics. Ten species are known from the Nearctic region, but considerable DNA barcode variation in the BOLD database suggests the presence of cryptic species. Davis & Stonis (2007) published a monograph of the New World fauna. The species are here listed in alphabetic order by genus.

Genus OPOSTEGOIDES Kozlov, 1985

16a0100 O. scioterma (Meyrick, 1920) (Opostega) 125
nonstriga; Heppner, 2003 (Opostegoides) missp.
nonstrigella of authors; (not Chambers, 1881) (Opostega) misid.
quadristrigella of authors; (not Chambers, 1875) (Opostega) missp.; misid.
NOTE: Treatment under this name, as a variety of *Pseudopostega albogaleriella*, was a misidentification.

Genus PSEUDOPOSTEGA Kozlov, 1985

16a0101 P. acidata (Meyrick, 1915) (Opostega) [NEW]
16a0102 P. albogaleriella (Clemens, 1862) (Opostega) 121
albogalleriella; (Forbes, 1923) (Opostega) missp.
bistrigulella (Braun, 1918) (Opostega) [120]
napaeella (Clemens, 1872) (Opostega)
nonstrigella (Chambers, 1881) (Opostega) [123]
16a0103 P. cretea (Meyrick, 1920) (Opostega) 119
16a0104 P. floridensis Davis & Stonis, 2007 (Pseudopostega) [NEW]
16a0105 P. kempella (Eyer, 1967) (Opostega) 124
16a0106 P. parakempella Davis & Stonis, 2007 (Pseudopostega) [NEW]
16a0107 P. quadristrigella (Chambers, 1875) (Opostega) 122
accessoriella (Frey & Boll, 1876) (Opostega)
16a0108 P. texana Davis & Stonis, 2007 (Pseudopostega) [NEW]
16a0109 P. venticola (Walsingham, 1897) (Opostega) [NEW]

clade EULEPIDOPTERA Kiriakoff, 1948 (all groups following)

Superfamily ADELOIDEA Bruand, 1851

7. Family PRODOXIDAE Riley, 1881 (yucca moths and allies)

by Erik J. van Nieukerken & Donald R. Davis

Prodoxids are small moths, with wingspans of 10 to 28 mm, and wings that are held tentlike over the body. The head is usually covered with erect hair-scales or is occasionally partly smooth. The adults are usually diurnal and often have white or golden wings, but some species are darker, often with white spots. Females of the pollinating yucca moths have developed a unique long, unsegmented tentacle as an appendix of the maxillary palp that is used for gathering pollen. Males have a pectinifer on the valva, and females have stellate signa in the bursa. Larvae bore into ovaries, fruit, leaves, or shoots. They overwinter as larvae, with the last-instar larvae diapausing for many years in some cases. There is substantial variation in larval morphology; legs or prolegs may be present, reduced, or absent. The genera *Lampronia* and *Greya* have hosts in families such as Rosaceae, Saxifragaceae, Apiaceae and Grossulariaceae. All other genera in NA feed on Agavaceae; species of *Tegeticula* and *Parategeticula* are the well-known yucca moths, renowned for their symbiotic relationship with *Yucca* plants (Asparagaceae) which are pollinated by the ovipositing females. Some species of *Tegeticula* cheat and oviposit in the fertilized fruits but do not pollinate the flowers. The so-called bogus yucca moths (*Prodoxus*) feed on various other tissues of the fertilized inflorescence (Pellmyr et al. 2005).

Prodoxidae and Incurvariidae were often confused in the past, and adult *Lampronia* and Incurvariidae resemble each other externally. The stellate signa in the female bursa form an important apomorphy for the Prodoxidae, and most male Incurvariidae do not have pectinifers on the valva. Phylogenetically, the Prodoxidae are sister to the southern hemisphere Cecidosidae. The phylogeny of the NA species was well studied by Olle Pellmyr and his students and those works were among the earliest published molecular phylogenies of Lepidoptera. From those studies, it appears that a division of two subfamilies, Lamproniinae and Prodoxinae, is no longer tenable (Pellmyr & Leebens Mack 1999), and our classification follows that phylogeny plus treatments of the separate genera (Brown et al. 1994; Pellmyr et al. 2005; Pellmyr et al. 2008). Only the phylogeny of *Lampronia* has not been studied yet.

Worldwide, about 100 species of Prodoxidae are known, with most occurring in the Nearctic region; only the genus *Lampronia* is Holarctic. In NA, 65 species are currently known, of which many were described in recent decades when it was shown that *Tegeticula yuccasella* in fact is a complex of species (Pellmyr 1999). Davis et al. (1992) provided a key to prodoxid genera.

Genus GREYA Busck, 1903
ID INFO: Davis et al. (1992).
GRAYA; Dietz, 1905 missp.

21a0001 G. variata (Braun, 1921) (Lampronia) 190
21a0002 G. variabilis Davis & Pellmyr, 1992 (Greya) H [NEW]
21a0003 G. pectinifera Davis & Pellmyr, 1992 (Greya) [NEW]
21a0004 G. politella (Walsingham, 1888) (Incurvaria) 194
21a0005 G. enchrysa Davis & Pellmyr, 1992 (Greya) [NEW]
21a0006 G. punctiferella (Walsingham, 1888) (Incurvaria) 189
speculella Blackmore, 1926 (Greya)
21a0007 G. piperella (Busck, 1904) (Incurvaria) [NEW]
21a0008 G. mitellae Davis & Pellmyr, 1992 (Greya) [NEW]
21a0009 G. obscura Davis & Pellmyr, 1992 (Greya) [NEW]
21a0010 G. obscuromaculata (Braun, 1921) (Lampronia) 187
augustella Blackmore, 1926 (Greya)
21a0011 G. powelli Davis & Pellmyr, 1992 (Greya) [NEW]
21a0012 G. solenobiella (Walsingham, 1880) (Incurvaria) 192
21a0013 G. suffusca Davis & Pellmyr, 1992 (Greya) [NEW]
21a0014 G. reticulatus (Riley, 1892) (Prodoxus) 193
21a0015 G. subalba Braun, 1921 (Greya) 191
21a0016 G. sparsipunctella (Walsingham, 1907) (Tinea) 188

Genus LAMPRONIA Stephens, 1829
TANYSACCUS Davis, 1978

21a0017 L. aenescens (Walsingham, 1888) (Incurvaria) 184
21a0018 L. capitella (Clerck, 1759) (Phalaena) H/I 177
bifasciella (Fabricius, 1787) (Tinea)
capittella; (Clerck, 1759) (Phalaena) missp.
NOTE: Misspelling by Clerck in the figure legend accompanying the description.
scribaiana (Brahm, 1791) (Phalaena)
21a0019 L. corticella (Linnaeus, 1758) (Phalaena) I [NEW]
NOTE: Introduced from Europe (Davis, in: Stehr et al. 1987; Belton 1988). Robinson & Nielsen (1983) synonymized *L. rubiella* with *L. corticella*.
dumicolella Peyerimhoff, 1872 (Lampronia)
multipunctella (Duponchel, 1839) (Incurvaria)
rubiella (Bjerkander, 1781) (Phalaena) *[180]*
variella (Fabricius, 1794) (Tinea)
21a0020 L. humilis (Walsingham, 1888) (Incurvaria) [NEW]
humulis; (Davis, 1983) (Tanysaccus) missp. *[186]*
21a0021 L. oregonella Walsingham, 1880 (Lampronia) 176
gilletella (Busck, 1915) (Incurvaria)
21a0022 L. russatella (Clemens, 1860) (Incurvaria) 175
tripunctella Walsingham, 1880 (Lampronia)
21a0023 L. sublustris Braun, 1925 (Lampronia) 185
21a0024 L. taylorella (Kearfott, 1907) (Incurvaria) 178
quieta Braun, 1921 (Lampronia)

Genus TETRAGMA Davis & Pellmyr, 1992
ID INFO: Davis et al. (1992).

21a0025 T. gei Davis & Pellmyr, 1992 (Tetragma) [NEW]

Genus MESEPIOLA Davis, 1967
ID INFO: Davis (1967).

21a0026 M. specca Davis, 1967 (Mesepiola) 209

Genus PRODOXUS Riley, 1880
ID INFO: Pellmyr et al. (2005); also Pellmyr et al. (2009).
AGAVENEMA Davis, 1967

21a0027 P. pallida (Davis, 1967) (Agavenema) 211
21a0028 P. barberella Busck, 1915 (Prodoxus) 210
21a0029 P. gypsicolor Pellmyr, 2005 (Prodoxus) [NEW]
21a0030 P. cinereus Riley, 1881 (Prodoxus) 207
21a0031 P. aenescens Riley, 1881 (Prodoxus) 208
21a0032 P. marginatus Riley, 1881 (Prodoxus) 205
pulverulentus Riley, 1892 (Prodoxus) *[206]*
21a0033 P. y-inversus Riley, 1892 (Prodoxus) 201
21a0034 P. praedictus Pellmyr, 2009 (Prodoxus) [NEW]
21a0035 P. tamaulipellus Pellmyr & Balcazar-Lara, 2005 (Prodoxus) [NEW]
21a0036 P. carnerosanellus Pellmyr & Balcazar-Lara, 2005 (Prodoxus) [NEW]
21a0037 P. sonorensis Pellmyr & Balcazar-Lara, 2005 (Prodoxus) [NEW]
21a0038 P. ochrocarus Davis, 1967 (Prodoxus) 203
21a0039 P. mapimiensis Pellmyr & Balcazar-Lara, 2005 (Prodoxus) [NEW]
21a0040 P. atascosanellus Pellmyr & Balcazar-Lara, 2005 (Prodoxus) [NEW]
21a0041 P. phylloryctus Wagner & Powell, 1988 (Prodoxus) [NEW]
21a0042 P. californicus Pellmyr, 2005 (Prodoxus) [NEW]
21a0043 P. coloradensis Riley, 1892 (Prodoxus) 202
confluens Cockerell, 1897 (Prodoxus)
lautus Cockerell, 1897 (Prodoxus)
rheumapterella (Dietz, 1905) (Incurvaria)
21a0044 P. quinquepunctella (Chambers, 1875) (Hyponomeuta) 200
paradoxica Chambers, 1878 (Prodoxus)
21a0045 P. decipiens Riley, 1880 (Prodoxus) [NEW]
21a0046 P. weethumpi Pellmyr, 2005 (Prodoxus) [NEW]
21a0047 P. sordidus Riley, 1892 (Prodoxus) 204

Genus TEGETICULA Zeller, 1873
ID INFO: Pellmyr (1999); also Pellmyr & Segraves (2003), Pellmyr et al. (2008).
PRONUBA Riley, 1872
THELETHIA Dyar, 1893
THIA Edwards, 1888
VALENTINIA Coolidge, 1909

21a0048 T. maculata (Riley, 1881) (Pronuba) 197
apicella (Dyar, 1903) (Pronuba)
aterrima (Trelease, 1893) (Pronuba)
extranea (Edwards, 1888) (Thia)
21a0049 T. synthetica (Riley, 1892) (Pronuba) 196
paradoxa (Trelease, 1893) (Pronuba)
21a0050 T. antithetica Pellmyr, 2003 (Tegeticula) [NEW]
NOTE: This species was accidentally omitted by Pohl et al. (2016).
21a0051 T. elatella Pellmyr, 1999 (Tegeticula) [NEW]
21a0052 T. cassandra Pellmyr, 1999 (Tegeticula) [NEW]
21a0053 T. intermedius (Riley, 1881) (Prodoxus) [NEW]
21a0054 T. corruptrix Pellmyr, 1999 (Tegeticula) [NEW]
21a0055 T. superficiella Pellmyr, 1999 (Tegeticula) [NEW]
21a0056 T. californica Pellmyr, 2008 (Tegeticula) [NEW]
NOTE: This species, described from southernmost CA, was accidentally omitted by Pohl et al. (2016).
21a0057 T. yuccasella (Riley, 1872) (Pronuba) 198
alba Zeller, 1873 (Tegeticula)
21a0058 T. altiplanella Pellmyr, 1999 (Tegeticula) [NEW]
21a0059 T. baccatella Pellmyr, 1999 (Tegeticula) [NEW]
21a0060 T. rostratella Pellmyr, 1999 (Tegeticula) [NEW]
21a0061 T. mojavella Pellmyr, 1999 (Tegeticula) [NEW]
21a0062 T. maderae Pellmyr, 1999 (Tegeticula) [NEW]
21a0063 T. carnerosanella Pellmyr, 1999 (Tegeticula) [NEW]
21a0064 T. mexicana Bastida, 1962 (Tegeticula) [NEW]
treculeanella Pellmyr, 1999 (Tegeticula)

Genus PARATEGETICULA Davis, 1967
ID INFO: Davis (1967), Pellmyr & Balcazar-Lara (2000).

21a0065 P. pollenifera Davis, 1967 (Parategeticula) 199

8. Family TRIDENTAFORMIDAE Davis, 2015 (manzanita moths)

by Erik J. van Nieukerken & Donald R. Davis

Manzanita moths are very small moths (wingspans from 8 to 20 mm) that have faintly shiny grey forewings suffused with white and an indistinct dark discal dot. This recently described family comprises a single genus and species which occurs in western NA (Regier et al. 2015b). The adults fly around manzanita (*Arctostaphylos*; Ericaceae) in early spring, but nothing is known of their biology. The sole species was originally described in the prodoxid genus *Lampronia*, and the genus was originally placed in the Incurvariidae, later in Prodoxidae, but in molecular phylogenetic studies, it did not group with either family. There are indications that the sole species, in fact, represents a complex of species (Powell & Opler 2009), which is further supported by the three different DNA barcode clusters currently on BOLD.

Genus TRIDENTAFORMA Davis, 1978
ID INFO: Davis (1978b).

21a0066 T. fuscoleuca (Braun, 1923) (Lampronia) 195

9. Family INCURVARIIDAE Spuler, 1899 (leafcutter moths)

by Erik J. van Nieukerken & Donald R. Davis

Leafcutter moths are very small moths, with wingspans of 6 to 15 mm. The adult head is covered with hairlike scales. The forewings, which are iridescent in some species, are often brown with white spots or fasciae. Phylogenetically, the family is characterized by the male valva possessing broadened scalelike spines instead of a pectinifer. The larvae usually have thoracic legs and reduced prolegs. They are leaf miners in early instars (throughout larval development in *Phylloporia bistrigella*); later, they construct cases using silk and cut pieces of leaf from which they skeletonize leaves or feed on leaf litter and in which they ultimately pupate. Most species are univoltine. Host plants are typically woody eudicots such as Betulaceae, Fagaceae, Rosaceae, Sapindaceae, or Ericaceae.

Currently, 56 species of leafcutter moths are known worldwide, with the largest diversity probably in Australia, including many unnamed species. Only six species are known from the Nearctic region, three of which are Holarctic, belonging to five genera; there is no indication of more undescribed diversity.

Subfamily INCURVARIINAE Spuler, 1899

Genus ALLOCLEMENSIA Nielsen, 1981
ID INFO: Nielsen (1981).

21a0067 A. americana Nielsen, 1981 (Alloclemensia) [NEW]
mesopiella; (Poole, 1996) (Incurvaria) missp.
mesopilella; (Davis, 1983) (Incurvaria) missp.
mesospilella of authors; (not Herrich-Schäffer, [1853]) (Incurvaria) misappl.
NOTE: This Old World name has been applied historically (and misspelled by various authors) to the Nearctic *A. americana*.
trimaculella of authors; (not Duponchel, 1838) (Incurvaria) misappl. *[179]*
NOTE: This taxon, a synonym of the Old World *A. mesospilella*, has been used historically for the Nearctic *A. americana*. It is a senior homonym of *Incurvaria trimaculella* Duponchel, 1840.

Genus INCURVARIA Haworth, 1828
ID INFO: Laasonen et al. (1981), Junnilainen et al. (2019).

21a0068 I. circulella (Zetterstedt, 1839) (Adela) H [NEW]
NOTE: Added to the NA fauna based on a BOLD specimen from Torngaat Mts., NL (also Eiseman 2022).

21a0069 I. vetulella (Zetterstedt, 1839) (Adela) H 174
kivatshella Kutenkova, 1987 (Incurvaria)

Genus PARACLEMENSIA Busck, 1904
ID INFO: Nielsen (1982).
BRACKENRIDGIA Busck, 1903

21a0070 P. acerifoliella (Fitch, 1854) (Ornix) 181
iridella (Chambers, 1873) (Tinea)
luteiceps (Walker, 1863) (Micropteryx)

Genus PHYLLOPORIA Heinemann, 1870

21a0071 P. bistrigella (Haworth, 1828) (Tinea) H 183
abalienella (Zetterstedt, 1839) (Adela)
aureovirens; (Dietz, 1905) (Incurvaria) missp.
aureovireus (Dietz, 1905) (Incurvaria)
dilorella (Herrich-Schäffer, 1851) (Tinea)
labradorella (Clemens, 1864) (Incurvaria)
labradoriella; (Walsingham, 1888) (Incurvaria) missp.
subammanella (Stainton, 1849) (Micropteryx)

Genus VESPINA Davis, 1972
ID INFO: Davis (1972).
CAREOSPINA Davis, 1972

21a0072 V. quercivora (Davis, 1972) (Careospina) 182

10. Family HELIOZELIDAE Heinemann & Wocke, [1876] 1877 (shield-bearer moths)

by Erik J. van Nieukerken, Charles S. Eiseman & Donald R. Davis

Shield-bearer moths are extremely small moths, with wingspans from 4 to 10 mm. The head has a vertex that is typically smooth, with broad, laminate, iridescent scales directed downward over the smooth frons. The antennae are shorter than the wings, with the scape entirely covered by iridescent scales. The wings are smooth, often metallic, and typically have a color pattern of one or two fasciae or opposing spots. However, the small *Coptodisca* species have wings that are basally pale silver or white with an apical pattern of yellow and black and a number of silver, black-bordered strigulae along the costa and dorsum, giving the impression of species of *Leucoptera* (Lyonetiidae). Adults are diurnal and sometimes swarm in numbers around their hosts; they rarely come to light. The larvae are usually legless and white, with a dark head capsule and prothoracic and anal plates. *Heliozela* larvae normally have reduced prolegs in the fourth instar only and reduced thoracic legs in the fifth instar, but the Nearctic *H. aesella* has well-developed thoracic legs (Davis 1987). Heliozelid larvae feed on trees, shrubs, and vines, mainly in the families Vitaceae, Cornaceae, Hydrangeaceae, Fagaceae, Betulaceae, and Ericaceae. Nearly all are leaf miners, although at least one Nearctic species is a gall maker. Larvae of the fourth instar cut sections from the upper and lower epidermis and join these together with silk to form a flat, oval case (shield) in which the larva molts into the fifth instar, searches for a pupation site, and finally pupates. *Heliozela aesella* larvae form galls from which they cut irregular pupal cases.

The phylogeny of the family was recently studied using molecular methods (Milla et al. 2017, 2019); the 2019 study showed that the family is supported by four morphological apomorphies: a smooth head covered by flat lamellar scales; epicranial suture absent; maxillary palps with four or fewer segments; and veins 1A and 2A in the forewings joined from the base. From the phylogenetic studies it also became clear that *Antispila* had been used as a “dustbin” genus and needed to be split. Some of the Nearctic species exhibit reduced wing venation and are phylogenetically closer to *Coptodisca* than *Antispila sensu stricto*. Here we follow van Nieukerken & Eiseman (2020) in the placement of those in *Aspilanta*. *Coptodisca* plus *Aspilanta* form a clade that is confined to the New World (though three Nearctic species have recently been introduced in Europe).

Worldwide, about 130 named species of heliozelids are known. The highest diversity is in Australia, with more than 100 unnamed species, followed by the Nearctic region where there are 30 named species and at least 20 more awaiting description. This includes an unexpected diversity of DNA barcodes among *Heliozela* in Canada based on DNA barcoding data of Malaise trappings, and in Massachusetts based on the recent discovery of *Heliozela* leaf mines on *Betula*.

Genus HELIOZELA Herrich-Schäffer, 1853

21a0073 H. aesella Chambers, 1877 (Heliozella [sic]) 230
21a0074 H. eugeniella (Busck, 1900) (Antispila) 235
NOTE: Recent combination made by van Nieukerken & Eiseman (2020).
21a0075 H. gracilis Zeller, 1873 (Heliozela) 231

Genus ANTISPILA Hübner, 1825

ID INFO (partial): Lafontaine (1973).

21a0076 A. aurirubra Braun, 1915 (Antispila) 239
21a0077 A. nysaefoliella Clemens, 1860 (Antispila) 234
nyssaefoliella; Chambers, 1878 (Antispila) missp.
21a0078 A. freemani Lafontaine, 1973 (Antispila) 233
21a0079 A. isabella Clemens, 1860 (Antispila) 236
issabella; Chambers, 1878 (Antispila) missp.
21a0080 A. cornifoliella Clemens, 1860 (Antispila) 232

Genus ASPILANTA van Nieukerken & Eiseman, 2020

ID INFO: van Nieukerken & Eiseman (2020).

21a0081 A. oinophylla (van Nieukerken & Wagner, 2012) (Antispila) [NEW]
NOTE: This species was previously partly misidentified as *A. ampelopsifoliella*. It was described as new when the species was found as invasive in Italian vineyards (van Nieukerken et al. 2012a).
21a0082 A. hydrangaeella (Chambers, 1874) (Antispila) 243
hydrangiaeella; (Chambers, 1878) (Antispila) missp.
21a0083 A. ampelopsifoliella (Chambers, 1874) (Antispila) 240
ampelopsiella; (Chambers, 1874) (Antispila) missp.
ampelopsisella; (Chambers, 1874) (Antispila) missp.
21a0084 A. voraginella (Braun, 1927) (Antispila) 241
21a0085 A. argentifera (Braun, 1927) (Antispila) 242
21a0086 A. viticordifoliella (Clemens, 1860) (Antispila) 237

Genus COPTODISCA Walsingham, 1895

ASPIDISCA Clemens, 1860

21a0087 C. arbutiella Busck, 1904 (Coptodisca) 255
21a0088 C. cercocarpella Braun, 1925 (Coptodisca) 258
21a0089 C. condaliae Busck, 1900 (Coptodisca) 245
21a0090 C. diospyriella (Chambers, 1874) (Aspidisca) 244
21a0091 C. juglandiella (Chambers, 1874) (Aspidisca) 248
NOTE: Reported as an invasive species in Europe: Hungary, feeding on Black Walnut (*Juglans nigra* L.; Juglandaceae), by Takács et al. (2020).
21a0092 C. kalmiella Dietz, 1921 (Coptodisca) 256
21a0093 C. lucifluella (Clemens, 1860) (Aspidisca) 247
NOTE: Reported as an invasive species in Europe: Italy, feeding on walnut (*Juglans* spp.; Juglandaceae), by Bernardo et al. (2015). *C. ella* was synonymized by Bernardo et al. (2015).
ella (Chambers, 1871) (Aspidisca) *[246]*
21a0094 C. magnella Braun, 1916 (Coptodisca) 249
21a0095 C. matheri Lafontaine, 1974 (Coptodisca) 250
21a0096 C. negligens Braun, 1920 (Coptodisca) 251
21a0097 C. ostryaefoliella (Clemens, [1862]) (Aspidisca) 252
21a0098 C. powellella Opler, 1971 (Coptodisca) 260
21a0099 C. quercicolella Braun, 1927 (Coptodisca) 259
querciella; Opler, 1971 (Coptodisca) missp.
21a0100 C. ribesella Braun, 1925 (Coptodisca) 257
21a0101 C. saliciella (Clemens, [1862]) (Aspidisca) 253
21a0102 C. splendoriferella (Clemens, 1860) (Aspidisca) 254
pruniella (Clemens, 1861) (Aspidisca)
saccatella (Packard, 1889) (Lyonetia)

11. Family ADELIDAE Bruand, 1851 (fairy moths)

by Erik J. van Nieukerken & Donald R. Davis

Fairy moths are very small to small moths (wingspans from 10 to 25 mm), most of which have extremely long antennae (except in *Cauchas*), usually much longer in the male than female. Adults are diurnal and usually have metallic markings on the wings. Males of many species of *Adela* and *Nemophora* form swarms and have enlarged compound eyes that are thought to be an adaptation for swarming. Many of these males have peculiar large pegs on the antenna which might also play a role in swarming (Nielsen 1980). The proboscis is long, and adults are frequently seen feeding on flowers. The females insert the eggs in plant tissue with a piercing oviscapt, often in flowers where the first-instar larvae feed in the ovary or the seed. Later-instar larvae are case bearers and feed on the lower or fallen leaves of the host. Larvae are often white, with a dark head and dark thoracic plates, well-developed thoracic legs, and reduced abdominal prolegs. All Holarctic species are probably univoltine, and some species take more than one year to develop. Life histories for NA species are only partly known; larval hosts include Brassicaceae for *Cauchas*, and Polemoniaceae, Papaveraceae, Phrymaceae, Rosaceae and others for *Adela*.

Recent phylogenetic studies suggest that Adelidae are not monophyletic, with the Adelinae as the sister group of the Heliozelidae, and the Nematopogoninae as sister to the two of these (Regier et al. 2015a; Milla et al. 2019). The Nematopogoninae are absent from the Nearctic. The main synapomorphy for the Adelidae *sensu lato* is the long antenna; another is the high number of ovarioles per ovary (Nielsen 1980).

Worldwide, about 300 species of fairy moths are known. The Adelidae of the New World have just been revised (Davis & Medeiros 2023), and the classification presented here follows that revision which recognizes 30 Nearctic species, including 12 newly described, with a high diversity in the genus *Cauchas*.

Subfamily ADELINAE Bruand, 1851

Genus NEMOPHORA Hoffmannsegg, in: Illiger, 1798
ID INFO: Powell (1969), Davis & Medeiros (2023).
ELASMION Hübner, 1822
EPITYPHIA Hübner, 1825
EUTYPHIA Hübner, 1825
NEMOTOIS Hübner, 1825
UCETIA Walker, 1866

21a0103 N. bellela (Walker, 1863) (Adela) H 218
esmarkella (Wocke, 1864) (Adela)
hedemanni (Christoph, 1888) (Adela)

Genus ADELA Latreille, 1796
ID INFO: Davis & Medeiros (2023).
AEDILIS Gistel, 1848
CAPILLARIA Haworth, 1828
DICTE Chambers, 1873
METALLITIS Sodoffsky, 1837

21a0104 A. punctiferella Walsingham, 1890 (Adela) 219
21a0105 A. singulella Walsingham, 1880 (Adela) 220
21a0106 A. caeruleella Walker, 1863 (Adela) 227
aeruginosella Walsingham, 1890 (Adela)
bella Chambers, 1873 (Adela)
chalybeis Zeller, 1873 (Adela)
iochora Zeller, 1877 (Adela)
21a0107 A. septentrionella Walsingham, 1880 (Adela) 221
septentrionelis; McDunnough, 1927 (Adela) missp.
21a0108 A. purpurea Walker, 1863 (Adela) 229
biviella Zeller, 1873 (Adela)
21a0109 A. astrella Walsingham, 1915 (Adela) [NEW]
NOTE: New for the Nearctic region, based on records in BOLD and iNaturalist, and published by Davis & Medeiros (2023), who also synonymized *A. lithopola*.
lithopola Walsingham, 1915 (Adela)
21a0110 A. trigrapha Zeller, 1876 (Adela) 225
fasciella Chambers, 1876 (Adela)
flammeusella of authors; not Chambers, 1876 (Adela) misappl.
trifasciella Chambers, 1876 (Adela)
21a0111 A. eldorada Powell, 1969 (Adela) 226
trigrapha of authors; not Zeller, 1876 (Adela) misappl.
21a0112 A. flammeusella Chambers, 1876 (Adela) 224
flamensella; Chambers, 1878 (Adela) missp.
flammensella; Kearfott, 1903 (Adela) missp.
lactimaculella Walsingham, 1880 (Adela)
21a0113 A. thorpella Powell, 1969 (Adela) 223
21a0114 A. oplerella Powell, 1969 (Adela) 222
21a0115 A. ridingsella Clemens, 1864 (Adela) 228
corruscifasciella (Chambers, 1873) (Dicte)
schlaegeri Zeller, 1873 (Adela)
21a0116 A. austrina Davis & Medeiros, 2023 (Adela) [NEW]

Genus CAUCHAS Zeller, 1839
ID INFO: Davis & Medeiros (2023).
CHALCEOPLA Braun, 1921
CYANAUGES Braun, 1919

21a0117 C. dietziella (Kearfott, 1908) (Incurvaria) 212
21a0118 C. alaskae Davis & Medeiros, 2023 (Cauchas) [NEW]
21a0119 C. vittata Davis & Medeiros, 2023 (Cauchas) [NEW]
21a0120 C. spinulosa Davis & Medeiros, 2023 (Cauchas) [NEW]
21a0121 C. recurvata Davis & Medeiros, 2023 (Cauchas) [NEW]
21a0122 C. suffusa Davis & Medeiros, 2023 (Cauchas) [NEW]
21a0123 C. cockerelli (Busck, 1915) (Incurvaria) 215
21a0124 C. simpliciella (Walsingham, 1880) (Adela) 216
discalis (Braun, 1925) (Chalceopla) *[217]*
itoniella (Busck, 1915) (Incurvaria)
ovata (Braun, 1921) (Chalceopla)
21a0125 C. sedella (Busck, 1915) (Incurvaria) 214
21a0126 C. cyanella (Busck, 1915) (Incurvaria) 213
21a0127 C. trifascia Davis & Medeiros, 2023 (Cauchas) [NEW]
21a0128 C. lobata Davis & Medeiros, 2023 (Cauchas) [NEW]
21a0129 C. excavata Davis & Medeiros, 2023 (Cauchas) [NEW]
21a0130 C. wielgusi Davis & Medeiros, 2023 (Cauchas) [NEW]
21a0131 C. clarkei Davis & Medeiros, 2023 (Cauchas) [NEW]
21a0132 C. elongata Davis & Medeiros, 2023 (Cauchas) [NEW]

clade EUHETERONEURA Regier et al., 2015 (all groups following)

Superfamily TISCHERIOIDEA Spuler, 1898

12. Family TISCHERIIDAE Spuler, 1898 (trumpet leafminer moths)

by Erik J. van Nieukerken & Charles S. Eiseman

Trumpet leafminers are very small moths, with wingspans from 5 to 11 mm. The head has a smooth frons and a somewhat roughened vertex; the antennal scape has a prominent tuft of slender scales projecting over the eye; and the male antennae have typical long recurved sensilla trichodea. The wings are slender and often more or less uniformly ochreous, though in some species they are variably flecked or dark iridescent. The larvae are small with a depressed body, the head prognathous and depressed, the legs greatly reduced or absent, and the prolegs poorly developed. Larvae of all species are leaf miners, forming either trumpet-shaped or blotch mines in leaves of deciduous trees, shrubs and some herbs. The larvae usually remove the frass from the mine through a small opening. In the mines of many species the epidermis becomes strongly wrinkled. Pupation is invariably within the mine, sometimes inside a circular silken “nidus” that the larvae of certain species use as a retreat. Host plants are mainly Fagaceae, Rosaceae, Asteraceae, Rhamnaceae, and Malvaceae.

Phylogenetically, the group is interesting because, together with part of the Palaephatidae, it forms the sister group to the Ditrysia (Regier et al. 2015b). The former single genus *Tischeria* was divided into three by Puplesis & Diškus (2003), and later four more genera were added (Stonis et al. 2017; Stonis & Solis 2020; Stonis et al. 2021b, 2021c).

There are about 175 described species of tischeriids worldwide (Stonis et al. 2020b, 2021a, b, c, plus this list). A total of 49 are reported from the Nearctic region, and we know of at least 10 unnamed species. The NA species were revised by Braun (1972), and the leaf mines were treated by Eiseman (2022). Since 2003, four species treated in Braun’s revision have been synonymized, but one of these is restored here, and a further two species occurring in FL and two from AZ have been described as new.

Genus TISCHERIA Zeller, 1839
EVEXIA Gistel, 1850
PHILODOXA Gistel, 1848
TISHERIA; Busck, 1903 missp.

23a0001 T. ambigua Braun, 1915 (Tischeria) 169
23a0002 T. ceanothi Walsingham, 1890 (Tischeria) 167
23a0003 T. immaculata Braun, 1915 (Tischeria) REV. STAT. 168
NOTE: This species was synonymized with *T. ceanothi* by Puplesis & Diškus (2003) without argumentation. On the basis of the different biology (Eiseman 2022) and the slight differences described by Braun (1972) we reinstate *T. immaculata* as a species distinct from *T. ceanothi* (rev. stat.).
23a0004 T. pulvella Chambers, 1878 (Tischeria) 173
NOTE: The generic position of this species is unclear, as the single type has no abdomen.
23a0005 T. quercitella Clemens, 1863 (Tischeria) 144
tinctoriella Chambers, 1875 (Tischeria)

Genus DISHKEYA Stonis, 2020
ID INFO: Stonis & Solis (2020).

23a0006 D. bifurcata (Braun, 1915) (Tischeria) 170

Genus ASTROTISCHERIA Puplesis & Diškus, 2003
ID INFO: Braun (1972); also Stonis et al. (2020a).

23a0007 A. ambrosiaeella (Chambers, 1875) (Tischeria) 160
23a0008 A. astericola (Braun, 1972) (Tischeria) 157
23a0009 A. bucera Remeikis & Stonis, 2020 (Astrotischeria) [NEW]
23a0010 A. explosa (Braun, 1923) (Tischeria) 172
23a0011 A. gregaria (Braun, 1972) (Tischeria) 162
23a0012 A. helianthi (Frey & Boll, 1878) (Tischeria) 161
longeciliata (Frey & Boll, 1878) (Tischeria) *[165]*
NOTE: Synonymized by Stonis et al. (2018).
23a0013 A. heliopsisella (Chambers, 1875) (Tischeria) 159
nolckenii (Frey & Boll, 1876) (Tischeria)
23a0014 A. heteroterae (Frey & Boll, 1878) (Tischeria) 164
23a0015 A. marginata (Braun, 1972) (Tischeria) 163
23a0016 A. melantheranella (Heppner, 2010) (Tischeria) N. COMB. [NEW]
NOTE: Described from FL in *Tischeria*, reared from mines on *Melanthera* spp. (Asteraceae) (Heppner 2010c). This species clearly belongs in *Astrotischeria* (n. comb.).
23a0017 A. occidentalis (Braun, 1972) (Tischeria) 158
23a0018 A. omissa (Braun, 1927) (Tischeria) 171
23a0019 A. pallidipennella (Braun, 1972) (Tischeria) 166
23a0020 A. solidagonifoliella (Clemens, 1859) (Tischeria) 156
23a0021 A. tucsonica Remeikis & Stonis, 2020 (Astrotischeria) [NEW]

Genus NEOTISCHERIA Diškus & Stonis, 2021
ID INFO: Diškus & Stonis (2015), Stonis et al. (2021c).
NOTE: This group was previously combined with *Paratischeria* Diškus & Stonis, 2017, and then subsequently split in two genera by Stonis et al. (2021c).

23a0022 N. neotropicana (Diškus & Stonis, 2015) (Astrotischeria) [NEW]
NOTE: New for NA: Moths emerging from a large number of mines collected on *Sida rhombifolia* L. (Malvaceae), in Big Cypress National Preserve, FL by EJvN in 2006, were later identified as this species (Eiseman 2022). Although there is some distance between the DNA barcodes of FL material and Central American specimens, we consider this as the same species.

Genus COPTOTRICHE Walsingham, 1890
EMMETIA Leraut, 1993

Coptotriche section I Braun, 1972
NOTE: This group follows the division by Braun (1972), adapted for the current classification by Eiseman (2022). Section I harbors the Fagaceae feeders.

23a0023 C. arizonica (Braun, 1972) (Tischeria) 137
23a0024 C. badiiella (Chambers, 1875) (Tischeria) 129
bodicella; (Chambers, 1875) (Tischeria) missp.
nubila (Braun, 1920) (Tischeria)
23a0025 C. castaneaeella (Chambers, 1875) (Tischeria) 140
castanella; (Walsingham, 1891) (Tischeria) emend.
cinereotunicella (Braun, 1927) (Tischeria)
cinerotunicella; (Braun, 1972) (Tischeria) missp.
23a0026 C. citrinipennella (Clemens, 1859) (Tischeria) 126

quercivorella (Chambers, 1875) (Tischeria)

23a0027 C. clemensella (Chambers, 1878) (Tischeria) 138
bicolor (Frey & Boll, 1878) (Tischeria)

23a0028 C. concolor (Zeller, 1876) (Tischeria) 133
23a0029 C. consanguinea (Braun, 1972) (Tischeria) 128
23a0030 C. discreta (Braun, 1972) (Tischeria) 136
23a0031 C. distincta (Braun, 1972) (Tischeria) 131
23a0032 C. fuscomarginella (Chambers, 1875) (Tischeria) 139
23a0033 C. lucida (Braun, 1972) (Tischeria) 130
23a0034 C. mediostriata (Braun, 1927) (Tischeria) 127
23a0035 C. perplexa (Braun, 1972) (Tischeria) 141
23a0036 C. purinosella (Chambers, 1875) (Tischeria) 135
albostraminea (Walsingham, 1907) (Tischeria)
pruinosella; (Chambers, 1878) (Tischeria) missp.

23a0037 C. simulata (Braun, 1972) (Tischeria) 134
23a0038 C. subnubila (Braun, 1972) (Tischeria) 132
23a0039 C. zelleriella (Clemens, 1859) (Tischeria) 143
complanoides (Frey & Boll, 1873) (Tischeria)
latipenella (Chambers, 1878) (Tischeria)
latipennella; ([various, no date]) (Tischeria) missp.
NOTE: Misspelling by Braun (1972), Davis (in Hodges et al. 1983) and others.
sulphurea (Frey & Boll, 1878) (Tischeria) *[142]*
NOTE: Synonymized by Puplesis & Diškus (2003).

Coptotriche section II Braun, 1972
NOTE: This group follows the division by Braun (1972), adapted for the current classification by Eiseman (2022). Section II harbors the Rosaceae and Ericaceae feeders.

23a0040 C. admirabilis (Braun, 1925) (Tischeria) 155
23a0041 C. aenea (Frey & Boll, 1873) (Tischeria) 149
23a0042 C. agrimoniella (Braun, 1972) (Tischeria) 148
23a0043 C. amelanchieris (Braun, 1972) (Tischeria) 154
23a0044 C. confusa (Braun, 1972) (Tischeria) 152
inexpectata (Braun, 1972) (Tischeria) *[153]*
NOTE: Synonymy by Stonis et al. 2020a.

23a0045 C. crataegifoliae (Braun, 1972) (Tischeria) 146
23a0046 C. insolita (Braun, 1972) (Tischeria) 151
23a0047 C. malifoliella (Clemens, 1860) (Tischeria) 145
23a0048 C. roseticola (Frey & Boll, 1873) (Tischeria) 147
23a0049 C. splendida (Braun, 1972) (Tischeria) 150

clade DITRYSIA Börner, 1925 (all groups following)

Superfamily TINEOIDEA Latreille, 1810

13. Family MEESSIIDAE Căpuşe, 1966

by Gregory R. Pohl

Meessiids are very small moths (wingspans 5 to 12 mm), superficially similar to most other tineoids, although they have narrower wings than most. The labial palps have a conspicuous whorl of bristles on the second segment, and the maxillary palps are elongate with five or six segments. The males have symmetrical genital valves, unlike many other tineoids. The larvae (of known species) construct portable cases from which they feed on lichens. They have long tactile setae on the pronotum and anal plate, and specialized anal combs for flicking frass from their cases.

This family was removed from the Tineidae by Regier et al. (2015a), and it currently contains only two genera and 71 species. Many of the genera previously placed in the tineid subfamily Meessiinae by Davis & Robinson (1999) were explicitly excluded from the Meessiidae by Regier et al. (2015a), based on genetic analysis (the former tineid subfamily Meessiinae was a “dumping ground” for unrelated narrow winged tineoids). The group is clearly in need of further work to determine its composition and defining characters.

Three species of meessiids (as currently defined) are known in the Nearctic region, all of which were treated by Forbes (1923). Robinson & Nielsen (1993) provide an excellent overview and illustrations of the genus *Eudarcia*, although they deal with no Nearctic species.

Genus EUDARCIA Clemens, 1860

ABCHAGLERIS Zagulajev, 1979
BRACHYS Zagulajev, 1979
COLCHIROMIS Zagulajev, 1979
DEMOBROTIS Meyrick, 1893
GALLIS Zagulajev, 1979
HAUGRESIS Zagulajev, 1979
LEPTOCHERSA Meyrick, 1919
MEESSIA Hoffmann, 1898
NEOMEESSIA Petersen, 1968
NIGRIS Zagulajev, 1979
OBESOCERAS Petersen, 1957
PROTODARCIA Forbes, 1931
PSEUDOBESOCERAS Gaedike, 1985
ZAGULYAEVELLA Koçak, 1981

30 0001 E. eunitariaeella (Chambers, 1873) (Tinea) 277
caemetariella; Dietz, 1905 (Eudarcia) missp.
coemeteriella; (Chambers, 1873) (Tinea) missp.
imitatorella (Chambers, 1876) (Tinea)

30 0002 E. simulatricella Clemens, 1860 (Eudarcia) 278

Genus BATHROXENA Meyrick, 1919

PELATES Dietz, 1905

30 0003 B. heteropalpella (Dietz, 1905) (Homosetia) 280

14. Family PSYCHIDAE Boisduval, 1829 (bagworm moths)

by Gregory R. Pohl

Bagworm moths are very small to medium-sized moths, with wingspans ranging from 8 to 50 mm. Males are fully winged; many females are brachypterous, apterous, or wormlike, with body appendages vestigial or absent. Some species exist only as parthenogenetic females and are best recognized by the larval cases. Larvae of psychids are leaf or lichen feeders and construct portable bags or cases from which they feed. Pupation takes place within the larval bags or cases. Males leave the bag on emergence and fertilize the female in the bag through one end of the case.

Worldwide, about 1,350 species of psychids are known, with most occurring in the Old World. The Nearctic fauna is relatively small, with 27 known species. Davis (1964) revised the New World species. Sobczyk (2011) published a world catalog which included many new synonyms, status changes, and new combinations. A tribal classification has been proposed for the Palaearctic fauna (Sauter & Hättenschwiler 1991). Sobczyk (2011) is followed as much as possible herein, with a few more recent proposals by Arnscheid & Weidlich (2017) adopted, but genera that are restricted to the Nearctic region remain unplaced below the subfamily level.

Subfamily NARYCIINAE Tutt, 1900

Tribe DAHLICIINI Enderlein, 1936

Genus DAHLICA Enderlein, 1912
ID INFO: Sauter (1956), Arnscheid & Weidlich (2017).

Subgenus DAHLICA Enderlein, 1912

30 0004 D. triquetrella (Hübner, 1813) (Tinea) I 436
NOTE: Introduced from Europe, first found in NA in BC in 1927 (Leech & Sugden 1967).
larviformis Enderlein, 1912 (Dahlica)
subtriquetrella (Millière, 1857) (Apterona)
triquetrella (Zincken, 1813) (Tinea)
ssp. a. triquetrella (Hübner, 1813) (Tinea)
thurneri (Sieder, 1953) (Solenobia)

30 0005 D. lichenella (Linnaeus, 1761) (Phalaena) I [NEW]
NOTE: Recent addition to the NA fauna; introduced from Europe to BC (Landry & Pohl, in: Pohl et al. 2018).
fumosella (Heinemann, 1870) (Solenobia)
lapidella (Bruand, 1845) (Psyche)
lapidella (Foucart, 1875) (Talaeporia)
lapidosa (Geoffroy, in: Fourcroy, 1785) (Phalaena)
lichenum (Schrank, 1782) (Psyche)
norvegica (Strand, 1919) (Solenobia)
petrella (Guenée, 1846) (Solenobia)
trigonotubulosa (Retzius, 1783) (Phalaena)

Subgenus SIEDERIA Meier, 1957

30 0007 D. walshella (Clemens, 1862) (Solenobia) 435

[NARYCIINAE – Unplaced to Tribe]

Genus KEARFOTTIA Fernald, 1904

30 0007 K. albifasciella Fernald, 1904 (Kearfottia) 319
albafasciella; Forbes, 1923 (Kearfottia) missp.

Subfamily PSYCHINAE Boisduval, 1829

Tribe PSYCHINI Boisduval, 1829

Genus PSYCHE Schrank, 1801
FUMARIA Haworth, 1811
FUMEA Haworth, 1812
MASONIA Tutt, 1900
SACCOFERA Sodoffsky, 1837
SACCOPHORA Agassiz, 1847

30 0008 P. casta (Pallas, 1767) (Phalaena) I 437
NOTE: Introduced from Europe (Sobczyk 2011).
bowerella (Chapman, 1900) (Fumea)
carpini Schrank, 1802 (Psyche)
germanica (Chapman, 1900) (Fumea)
hibernicella (Chapman, 1900) (Masonia)
hirsutella (Petersen, 1900) (Fumea)
intermediella Bruand, 1853 (Psyche)
lucidella (Haworth, 1802) (Tinea)
mitfordella (Chapman, 1900) (Fumea)
muscea (Haworth, 1811) (Fumaria)
nana (Borkhausen, 1790) (Phalaena)
niphonica (Hori, 1926) (Eumea)
nitida (Haworth, 1811) (Fumaria)
nitidea (Haworth, 1811) (Fumea)
nitidella (Hübner, 1793) (Phalaena)
palearis (Geoffroy, in: Fourcroy, 1785) (Tinea)
roboricolella Bruand, 1845 (Psyche)
tubifer (Kirby, 1892) (Fumea)
tubifex (Retzius, 1783) (Phalaena)
ussuriensis (Kozhantschikov, 1956) (Fumea)
vestita (de Villers, 1789) (Phalaena)
viciella (Vallot, 1802) (Phalaena)

[PSYCHINAE – Unplaced to Tribe]

Genus PROCHALIA Barnes & McDunnough, 1913

30 0009 P. pygmaea Barnes & McDunnough, 1913 (Prochalia) 439

Subfamily OIKETICINAE Herrich-Schäffer, 1855

Tribe ACANTHOPSYCHINI Tutt, 1900

Genus ZAMOPSYCHE Dyar, 1923

30 0010 Z. commentella Dyar, 1923 (Zamopsyche) 440

Genus CRYPTOTHELEA Duncan, 1841
PLATOECETICUS Packard, 1869

30 0011 C. nigrita (Barnes & McDunnough, 1913) (Manatha) 441
30 0012 C. gloverii (Packard, 1869) (Platoeceticus) 442
jonesi (Barnes & Benjamin, 1922) (Manatha)
pizote (Schaus, 1927) (Chalia)
tristis (Vásquez, 1941) (Oiketicoides)

Genus ASTALA Davis, 1964

30 0013 A. confederata (Grote & Robinson, 1868) (Psyche) 443
lepidopteris (Dyar, 1926) (Pachytelia)
30 0014 A. polingi (Barnes & Benjamin, 1924) (Eurukuttarus) 444
30 0015 A. edwardsii (Heylaerts, 1884) (Manatha) [NEW]
carbonaria (Packard, 1887) (Psyche)
edwardsi; Davis, 1983 (Astala) emend. *[445]*

Genus THYRIDOPTERYX Stephens, 1835
HYMENOPSYCHE Grote, 1865

30.0015.51 T. meadii Edwards, 1881 (Thyridopteryx) 455
meadi; [various, no date] (Thyridopteryx) missp.
NOTE: The spelling "*meadi*" was erroneously listed as the correct spelling in the world catalog (Sobczyk 2011). The Original spelling is *meadii*.
30.0015.52 T. alcora Barnes, 1905 (Thyridopteryx) 456
30.0015.53 T. ephemeraeformis (Haworth, 1803) (Sphinx) 457
coniferarum (Packard, 1864) (Oeceticus)
pallidovenata Grossbeck, 1917 (Thyridopteryx)
plumifera (Stephens, 1834) (Psyche)
vernalis Jones, 1923 (Thyridopteryx)

Tribe APTERONINI Tutt, 1900

Genus APTERONA Millière, 1857
COCHLIOTHECA Rambur, 1866
COCHLOPHANES Staudinger, 1871
COCHLOPHORA Siebold, 1871

30.0015.6 A. helicoidella (Vallot, 1827) (Tinea) I [NEW]
NOTE: Introduced from Europe (Davis 1964).
crenulella (Bruand, 1853) (Psyche)
helicinella Millière, 1857 (Apterona)
helicinella (Rambur, 1866) (Cochliotheca)
helix (Siebold, 1851) (Psyche) *[438]*
paludella Dannehl, 1929 (Apterona)
resedella (Vallot, 1843) (Tinea)

Tribe OIKETICINI Herrich-Schäffer, 1855

Genus OIKETICUS Guilding, 1827
PARAOIKETICUS Davis, 1964

30.0015.71 O. toumeyi Jones, 1922 (Oiketicus) 452
mortonjonesi Vásquez, 1949 (Oiketicus)
30.0015.72 O. townsendi Townsend, 1894 (Oiketicus) 453
ssp. a. townsendi Townsend, 1894 (Oiketicus)
bonniwelli Barnes & Benjamin, 1924 (Oiketicus)
ssp. b. dendrokomos Jones, 1926 (Oiketicus)
NOTE: Listed as a synonym in error by Pohl et al. (2016) and others; it is a subspecies in Davis (1964), Davis (in Hodges et al. 1983), and Sobczyk (2011).
dendrocomus; Gaede, 1936 (Oiketicus) missp.
30.0015.73 O. abbotii Grote, 1880 (Oiketicus) 454
abboti; Holland, 1905 (Oiketicus) missp.

Genus "OIKETICUS" Guilding, 1827 PROV. PL.

30.0015.8 O. davidsonii Edwards, 1877 (Oeceticus [sic])
ident. uncert. [NEW]
NOTE: This species was described from a case found on Mt. Diablo, CA that was thought to be accidentally introduced from South America (Davis 1964). We place it provisionally here at the end of the genus. The original spelling is reported as "*davidsonii*" by Sobczyk (2011), with "*davidsoni*" being a subsequent misspelling by Davis (1964) and Davis (in: Hodges et al. 1983).
davidsoni; Davis, 1964 (Oiketicus) emend. *[459]*

[OIKETICINAE – Unplaced to Tribe]

Genus HYALOSCOTES Butler, 1881
HYALOSCOTIS; Gaede, 1936 missp.
HYALOSCOTUS; Gaede, 1936 missp.

30.0016 H. coniferella (Edwards, 1877) (Psyche) 446
30.0017 H. fragmentella (Edwards, 1877) (Psyche) 447
30.0018 H. fumosa Butler, 1881 (Hyaloscotes) 448
cacocnemis; (Gaede, 1936) (Eurycyttarus) missp.
cacocnemos (Jones, 1922) (Psyche)
30.0019 H. pithopoera (Dyar, 1923) (Pachytelia [sic]) 449
sheppardi Freeman, 1944 (Hyaloscotes)

Genus BASICLADUS Davis, 1964

30.0020 B. tracyi (Jones, 1911) (Eurycyttarus) 450
traceyi; (Dyar, 1923) (Pachytelia) missp.
30.0021 B. celibata (Jones, 1922) (Psyche) 451

Genus EUCOLONEURA Davis, 2002
COLONEURA Davis, 1964
NEOCOLONEURA Özdikmen, 2007

30.0022 E. fragilis (Barnes & McDunnough, 1916) (Apterona)
451.1

Genus "CHALIA" Moore, 1877 PROV. PL.; PREOCC.
NOTE: This name is a junior homonym of *Chalia* Walker, 1858 (Homoptera). No replacement name is currently available.

30.0029e C. rileyi Heylaerts, 1884 (Chalia) EXCL.; nom. dub. 458
NOTE: Placed by Davis (1964) as a synonym of *Zamopsyche commentella* with the remark: "maybe a synonym of *Z. commentella*". Although Davis (1964) indeed wrote that *rileyi* is probably a synonym of *commentella*, that was inconclusive and he subsequently listed *rileyi* as an unplaced species at the end of the family (Davis, in: Hodges et al. 1983). Sobczyk (2011) lists it as a synonym of *Z. commentella*. However, if *rileyi* is truly a synonym of *Z. commentella*, it is the senior name and would have priority. Unfortunately the type is lost so its placement cannot be determined. We place it here at the end of the subfamily, in "*Chalia*", the original genus (True *Chalia* is an unavailable junior homonym, and is now a synonym of *Kotochalia* Sonan).

15. Family DRYADAULIDAE Bradley, 1966 (dancing moths)

by Gregory R. Pohl

Dryadaulids are very small moths (wingspans 7 to 13 mm) that are similar to many other tineoids. They have slender forewings, a roughly scaled head, and a spatulate terminal segment of the labial palps. The males have asymmetrical genitalia, and the female genitalia are reduced and not extensible. Larvae are detritivores or feed on lichens and fungi. A few species have been found living within polypore fungi.

Like Meessiidae, this group was removed from the Tineidae by Regier et al. (2015a), and its composition is not entirely settled. As currently defined, 46 species of dryadaulids are known worldwide; only two are known in the Nearctic region, although DNA barcode variation in the BOLD database suggests the presence of additional species. Adults of both Nearctic species are figured by Regier et al. (2015a); Heppner (2022a) provides some biological information.

Genus DRYADAULA Meyrick, 1893

ARCHIMEESSIA Zagulajev, 1970
CHOROCOSMA Meyrick, 1893
CHOROPLECA Durrant, 1914
CYANE Chambers, 1873
DIACHALASTIS Meyrick, 1920
DITRIGONOPHORA Walsingham, 1897
OPSODOCA Meyrick, 1919
REINHARDIA Sachkov, 1995
SLITEREIA Sachkov, 1995
STROPHALINGA Gozmány & Vari, 1973
THERMOCRATES Meyrick, 1936

30 0032 D. visaliella (Chambers, 1873) (Cyane) [NEW]
vesaliella; Forbes, 1923 (Dryadaula) missp. *[307]*

30 0033 D. terpsichorella (Busck, 1910) (Cyane) I [NEW]
NOTE: This species was introduced from Polynesia, first reported in NA in San Diego, CA in 1998 (Powell & Opler 2009). It is now known in CA and FL as well.
tetraglossa (Meyrick, 1920) (Diachalastis)

16. TINEOIDEA – UNPLACED TO FAMILY

by Gregory R. Pohl

Doleromorpha porphyria is a species of Tineoidea that is currently not placed to any family. It is an extremely small moth (wingspan about 7 mm) with dark purplish-brown wings and a roughly scaled head.

The genus and species were described by Braun (1930) and placed in the Tineidae. Since then, it was historically placed in the tineid subfamily Meessiinae, but Regier et al. (2015a) convincingly excluded it from the Tineidae and Meessiidae based on genetic analyses. In addition, Sohn et al. (2013) excluded it from the Yponomeutoidea. It appears to be sister group to *Dryadaula*, but shares no morphological apomorphies with that genus, so it was placed by Regier et al. (2015a) as *incertae sedis* within the Tineoidea. Herein we place it immediately following Dryadaulidae.

Besides the original description of the genus and species by Braun (1930), Regier et al. (2015a) illustrated the adult.

Genus DOLEROMORPHA Braun, 1930
ID INFO: Braun (1930), Regier et al. (2015a).

30 0033.5 D. porphyria Braun, 1930 (Doleromorpha) 276

17. Family TINEIDAE Latreille, 1810 (fungus moths, clothes moths, and allies)

by Gregory R. Pohl

Most tineid moths are very small moths, with wingspans of 8 to 18 mm. The wings are usually dull, brownish in color, and held tentlike over the body when at rest. Adults move with a characteristic scuttling run, similar to small caddisflies. After the removal of Meessiidae, Dryadaulidae, and *Doleromorpha* by Regier et al. (2015a), the remaining Tineidae were found to form a monophyletic group, but no clear morphological synapomorphies unite them.

Most tineid larvae are fungivorous, while others feed on detritus, stored food products, fabrics, fur, or feathers. Many tineid larvae build portable cases from which they feed. The family includes several stored product pests and the ubiquitous clothes moths.

The last comprehensive work on the Tineidae was by Dietz (1905), which is long out of date, and there has been little species-level taxonomic work on the group since then. However, Robinson (1986) reviewed the worldwide Scardiinae, Davis (1978c) reviewed the Hieroxestinae, and Hasbrouck (1964) revised the Nearctic species of the large acrolophine genus *Acrolophus*. Several NA tineid species have been treated in Robinson & Nielsen (1993), which deals with the Australian fauna, and Gaedike (2015, 2019), which deal with the European fauna.

Regier et al. (2015a) revised the higher classification of the family based on genetic characters, and the general framework of that subfamily arrangement is followed here. Two unnamed groupings, “clade A” and “clade B”, were found to be monophyletic by Regier et al. (2015a) and likely represent new subfamilies. That classification remains tentative, and several genera remain unplaced to any subfamily-level group and are placed herein at the end of the family. The species-level nomenclature has changed little since Davis (in Hodges et al. 1983), but changes made by Robinson & Nielsen (1993) and Gaedike (2015, 2019) have been incorporated here. Worldwide, about 2,300 species of tineids are known; 196 species are known from the Nearctic region.

Subfamily HAPSIFERINAE Gozmány, 1968

Genus TIQUADRA Walker, 1863

ACUREUTA Zeller, 1877
CYATHAULA Meyrick, 1886
MANCHANA Walker, 1866
MASTIGOSTOMA Meyrick, 1911
OSCELLA Walker, 1864
VENTIA Walker, 1866

30 0034 T. inscitella Walker, 1863 (Tiquadra) 427

Subfamily MYRMECOZELINAE Căpuşe, 1968

NOTE: Position of this subfamily within the Tineidae, and placement of *Cephimallota* and *Haplotinea* in this subfamily, is tentative. Regier et al. (2015a, 2015b) had conflicting results about the placement of this group.

Genus CEPHIMALLOTA Bruand, 1851

NOTE: Generic synonymy is from Gaedike (2019).

ANEMALLOTA Zagulajev, 1964
APHIMALLOTA Zagulajev, 1964
CEPHITINEA Zagulajev, 1964

30 0035 C. obscurostrigella (Chambers, 1874) (Tinea) 324
longinella (Zagulajev, 1964) (Cephitinea)

Genus HAPLOTINEA Diakonoff & Hinton, 1956

ID INFO: Gaedike (2019).

30 0036 H. insectella (Fabricius, 1794) (Tinea) I 325
NOTE: Introduced from Europe (Madrid & Sinha 1984).
misella (Zeller, 1839) (Tinea)
rusticella (Hübner, 1796) (Tinea)

Subfamily SETOMORPHINAE Walsingham, 1891

Genus SETOMORPHA Zeller, 1852

ID INFO: Robinson & Nielsen (1993).

APOTOMIA Dietz, 1905
ATTICONVIVA Busck, 1935
EPILEGIS Dietz, 1905
SEMIOTA Dietz, 1905

30 0037 S. rutella Zeller, 1852 (Setomorpha) C/I 428
NOTE: This species was first described from specimens collected in South Africa and it is now found in tropical areas throughout the world. The true origin of this species may never be known due to its propensity to travel with dry plant material (contributed by JDY).
cariosella (Dietz, 1905) (Epilegis)
contestata Meyrick, 1922 (Setomorpha)
corticinella Snellen, 1885 (Setomorpha)
discipunctella Rebel, 1894 (Setomorpha)
dryas (Butler, 1881) (Chrestotes)
euryspoda (Lower, 1918) (Trisyntopa)
fractiliniella (Dietz, 1905) (Apotomia)
inamoenella Zeller, 1873 (Setomorpha)
majorella Dietz, 1905 (Setomorpha)
margalaestriata Keuchenius, 1917 (Setomorpha)
multimacullela (Chambers, 1878) (Gelechia)
nitella; Voute, 1935 (Setomorpha) missp.
operosella Zeller, 1873 (Setomorpha)
ruderella Zeller, 1873 (Setomorpha)
rupicella Zeller, 1852 (Setomorpha)
sigmoidella Dietz, 1905 (Setomorpha)
tineoides Dammerman, 1919 (Setomorpha)
transversestrigella (Dietz, 1905) (Semiota)

Genus LINDERA Blanchard, 1854

ID INFO: Robinson & Nielsen (1993).

NOTE: Some authors have treated *Lindera* as a synonym of *Setomorpha*, but we treat it as a separate genus following Robinson & Nielsen (1993).

CERVITINEA Amsel, 1954
CHRESOTES Butler, 1881
PALPULA Blanchard, 1854
PARANEURA Dietz, 1905
SAFRA Walker, 1864

30 0038 L. tessellatella Blanchard, 1854 (Lindera) 429
bogotatella Walker, 1864 (Lindera)
calcularis (Meyrick, 1906) (Setomorpha)
cruciferella (Dietz, 1905) (Paraneura)
ehrhornella (Dietz, 1905) (Paraneura)
simulella (Dietz, 1905) (Paraneura)
variegella (Blanchard, 1854) (Palpula)

Subfamily ACROLOPHINAE Fracker, 1915

Genus AMYDRIA Clemens, 1859

ID INFO: Dietz (1905).

AMYDRYA; Kearfott, 1903 missp.
CASAPE Walker, 1864

30 0039 A. apachella Dietz, 1905 (Amydria) 327
30 0040 A. arizonella Dietz, 1905 (Amydria) 328
30 0041 A. brevipennella Dietz, 1905 (Amydria) 329
30 0042 A. clemensella Chambers, 1874 (Amydria) 330
30 0043 A. confusella Dietz, 1905 (Amydria) 331
30 0044 A. curvistrigella Dietz, 1905 (Amydria) 332
pandurella Dietz, 1905 (Amydria)
30 0045 A. dyarella Dietz, 1905 (Amydria) 333
30 0046 A. effrenatella Clemens, 1859 (Amydria) emend. [NEW]
coloradella Dietz, 1905 (Amydria)
effrentella; Clemens, 1859 (Amydria) orig. missp. [334]
NOTE: Clemens corrected the original misspelling, in a footnote in a later section of the same paper (contributed by SRN).
30 0046.1 A. erecta (Braun, 1923) (Myrmecozela) [NEW]
NOTE: This species, described from "Angeles Bay, Lower California" (=Baja California, Mexico), was added to the NA fauna by Brown & Bash (2000), based on records from the Naval Air Station Miramar in CA (contributed by SRN).
30 0047 A. margoriella Dietz, 1905 (Amydria) 335
margorieella; Dietz, 1905 (Amydria) missp.
marjorieella; Dietz, 1905 (Amydria) missp.
marjoriella; Busck, 1906 (Amydria) missp.
30 0048 A. obliquella Dietz, 1905 (Amydria) 336
30 0049 A. onagella Dietz, 1905 (Amydria) 337
occidentella Dietz, 1905 (Amydria)
30 0049.1 A. pogonites Walsingham, 1914 (Amydria) [NEW]
NOTE: This Mexican species is added to the NA fauna on the basis of specimens from Hidalgo County, TX, identified by DRD (pers. comm.).

Genus ACROLOPHUS Poey, 1832

ID INFO: Hasbrouck (1964); also Davis & Milstrey (1988), Davis (1990).
NOTE: Although Hasbrouck (1964) purports to list *Acrolophus* species in order of "the natural relationships within this group", it was not a rigorous phylogenetic analysis, so the species are presented here in alphabetical order, as was done by Davis (in Hodges et al. 1983).

ANAPHORA Clemens, 1859
ANAPHORINA Strand, 1932
ANKISTROPHORUS Walsingham, 1887
ANOPHORA; Kearfott, 1903 missp.
APOCLISIS Walsingham, 1914
ATOPOCERA Walsingham, 1887
BAZIRA Walker, 1864
BRACHYSYMBOLA Meyrick, 1912
CAENOGENES Walsingham, 1887
DAULIA Walker, 1863
DERCHIS Walker, 1863
EDDARA Walker, 1863
EDDARULA Strand, 1932
EULEPISTE Walsingham, 1882
EUTHECA Grote, 1881
FELDERIA Walsingham, 1887
HIBITA Walker, 1863
HOMONYMUS Walsingham, 1887
HYPOCLOPUS Walsingham, 1887
HYPOCOLPUS; Druce, 1903 missp.
NEOLOPHUS Walsingham, 1887
OROTHYNTIS Meyrick, 1913
ORTHOLOPHUS Walsingham, 1887
PHLONGIA Walker, 1864
PILANOPHORA Walsingham, 1887
PSEPHOCRITA Meyrick, 1913
PSEUDANAPHORA Walsingham, 1887
PSEUDOCONCHYLIS Walsingham, 1884
SAPINELLA Kirby, 1892
TACHASARA Walker, 1865
THYSANOSCELIS; Walsingham, 1887 orig. missp.
THYSANOSEDES; Druce, 1901 missp.
THYSANOSKELIS Walsingham, 1887 emend.
TIRASIA Walker, 1863
URBARA Walker, 1864
XEROCAUSTA Meyrick, 1919

30 0061 A. acanthogona Meyrick, 1919 (Acrolophus) 338
30 0061.1 A. acornus Hasbrouck, 1964 (Acrolophus) 339
30 0061.2 A. arcanella (Clemens, 1859) (Anaphora) 340
30 0066 A. arizonellus Walsingham, 1887 (Acrolophus) 341
30 0066.1 A. baldufi Hasbrouck, 1964 (Acrolophus) 342
30 0066.2 A. bicornutus Hasbrouck, 1964 (Acrolophus) 343
30 0066.3 A. chiricahuae Hasbrouck, 1964 (Acrolophus) 344
30 0066.4 A. cockerelli (Dyar, 1900) (Eulepiste) 345
30 0070 A. crescentella (Kearfott, 1907) (Amydria) 346
30 0070.1 A. cressoni (Walsingham, 1882) (Eulepiste) 347
30 0070.2 A. davisellus Beutenmüller, 1887 (Acrolophus) 348
30 0070.3 A. dorsimacula (Dyar, 1900) (Felderia) 349
30 0070.4 A. exaphrista Meyrick, 1919 (Acrolophus) 350
30 0070.5 A. fervidus Busck, 1912 (Acrolophus) 351
antonellus (Barnes & McDunnough, 1913) (Neolophus)
30 0070.6 A. filicicornis (Walsingham, 1887) (Felderia) [NEW]
filicornus; Davis, 1983 (Acrolophus) missp. [352]
mexicanellus Beutenmüller, 1888 (Acrolophus)
30 0070.7 A. forbesi Hasbrouck, 1964 (Acrolophus) 353
30 0075 A. furcatus (Walsingham, 1887) (Neolophus) 354
30 0075.1 A. griseus (Walsingham, 1887) (Hypoclopus) 355
ssp. a. griseus (Walsingham, 1887) (Hypoclopus)
leucallactis Meyrick, 1919 (Acrolophus)
ssp. b. capitatus Hasbrouck, 1964 (Acrolophus)
30 0075.2 A. harparsen Forbes, 1931 (Acrolophus) [NEW]
NOTE: Specimens collected in two counties in FL in 2017 and 2021 are deposited in the FSCA.
30 0075.3 A. heppneri Davis, 1990 (Acrolophus) [NEW]
30 0075.4 A. juxtatus Hasbrouck, 1964 (Acrolophus) 356
30 0075.5 A. kearfotti (Dyar, 1903) (Eulepiste) 357
diversus Busck, 1912 (Acrolophus)
30 0075.6 A. klotsi Hasbrouck, 1964 (Acrolophus) 358
30 0079 A. laticapitana (Walsingham, 1884) (Pseudoconchylis) 359
ssp. a. laticapitana (Walsingham, 1884) (Pseudoconchylis)
unistrigana (Dyar, 1903) (Phalonia)
ssp. b. clarkei Hasbrouck, 1964 (Acrolophus)
ssp. c. heinrichi Hasbrouck, 1964 (Acrolophus)
ssp. d. occidens Busck, 1910 (Acrolophus)
flavicomus Busck, 1912 (Acrolophus)
leopardus Busck, 1910 (Acrolophus)
30 0079.1 A. leucodocis (Zeller, 1877) (Anaphora) 360
medioliniella (Kearfott, 1907) (Dorota)
30 0079.2 A. luriei Hasbrouck, 1964 (Acrolophus) 361
30 0079.3 A. macrogaster (Walsingham, 1887) (Anaphora) 362
ssp. a. macrogaster (Walsingham, 1887) (Anaphora)
ssp. b. bipectinicornus Hasbrouck, 1964 (Acrolophus)
ssp. c. laminicornus Hasbrouck, 1964 (Acrolophus)
ssp. d. unipectinicornus Hasbrouck, 1964 (Acrolophus)
30 0079.4 A. macrophallus Hasbrouck, 1964 (Acrolophus) 363
30 0079.5 A. maculifer (Walsingham, 1887) (Eulepiste) 364
30 0079.6 A. minor (Dyar, 1903) (Pseudanaphora) 365
coloradellus (Walsingham, 1907) (Homonymus)
30 0081 A. mora (Grote, 1881) (Eutheca) 367
30 0081.1 A. mortipennella (Grote, 1872) (Anaphora) 366
carphologa Meyrick, 1919 (Acrolophus)
quadripunctellus Dyar, 1900 (Acrolophus)
zeela Hasbrouck, 1964 (Acrolophus)
30 0081.2 A. mycetophagus Davis, 1990 (Acrolophus) [NEW]
30 0083 A. panamae Busck, 1914 (Acrolophus) N/I 368
NOTE: The earliest known NA records are from 1931 (contributed by JDY).
30 0083.1 A. parvipalpus Hasbrouck, 1964 (Acrolophus) 369
30 0087 A. persimplex (Dyar, 1900) (Neolophus) 370
30 0087.1 A. pholeter Davis, 1988 (Acrolophus) [NEW]
30 0087.2 A. piger (Dyar, 1900) (Ortholophus) 371
30 0087.3 A. plumifrontella (Clemens, 1859) (Anaphora) 372
angustipennella Beutenmüller, 1887 (Acrolophus)
bombycina (Zeller, 1873) (Anaphora)
cervinus Walsingham, 1887 (Acrolophus)
30 0087.4 A. popeanella (Clemens, 1859) (Anaphora) 373
agrotipennella (Grote, 1872) (Anaphora)
confusellus (Dyar, 1900) (Anaphora)
morrisoni (Walsingham, 1887) (Anaphora)
scardina (Zeller, 1873) (Anaphora)
30 0087.5 A. propinqua (Walsingham, 1887) (Anaphora) 374
busckella (Haimbach, 1915) (Anaphora)
tenuis (Walsingham, 1887) (Anaphora)
violaceellus Beutenmüller, 1887 (Acrolophus)
30 0087.6 A. pseudohirsutus Hasbrouck, 1964 (Acrolophus) 375
hirsutus Busck, 1912 (Acrolophus)

300087.7 A. punctellus (Busck, 1907) (Neolophus) 376
300087.8 A. pyramellus (Barnes & McDunnough, 1913) (Eulepiste) 377
300089 A. quadrellus (Barnes & McDunnough, 1913) (Pseudanaphora) 378
300094 A. seculatus Hasbrouck, 1964 (Acrolophus) 379
300094.1 A. serratus Hasbrouck, 1964 (Acrolophus) 380
300094.2 A. simulatus Walsingham, 1882 (Acrolophus) 381
300094.3 A. sinclairi Hasbrouck, 1964 (Acrolophus) 382
ssp. a. sinclairi Hasbrouck, 1964 (Acrolophus)
ssp. b. nelsoni Hasbrouck, 1964 (Acrolophus)
300094.4 A. spilotus Davis, 1990 (Acrolophus) [NEW]
300094.5 A. texanella (Chambers, 1878) (Anaphora) 383
barnesii (Dyar, 1900) (Atopocera)
hulstellus Beutenmüller, 1887 (Acrolophus)
300094.6 A. vanduzeei Hasbrouck, 1964 (Acrolophus)
ident. uncert. 384
NOTE: The validity of this species is uncertain; the type is from TX, and is a specimen of *A. piger*, but the description is based on specimens from AZ and Mexico that appear to represent a different species (Peter Jump, pers. comm.).
300095 A. variabilis (Walsingham, 1887) (Ortholophus) 385
300097 A. vauriei Hasbrouck, 1964 (Acrolophus) 386
300103 A. walsinghami Möschler, 1890 (Acrolophus) I [NEW]
NOTE: Initially reported for NA based on a FL record by Jim Troubridge, and now abundant in urban environments in peninsular FL (JEH, pers. comm.). This name was synonymized with *Acrolophus triatomella* in Davis (1987) and erroneously made a junior synonym (Peter Jump, pers. comm.; 2017). A. *walsinghami* has priority and is here retained although it does not appear that a correction has been formally published. This error may be based on Heppner (1984) which erroneously listed the description date of *triatomella* as 1877.
triatomella (Walsingham, 1897) (Anaphora)

Subfamily NEMAPOGONINAE Hinton, 1955

Genus TRIAXOMERA Zagulajev, 1959
ID INFO: Landry et al. (2013), Gaedike (2015).

300104 T. parasitella (Hübner, 1796) (Tinea) H/I [NEW]
NOTE: Likely introduced from Europe; first found in BC in 2005 (Landry et al. 2013).

Genus NEMAPOGON Schrank, 1802
ANEMAPOGON Zagulajev, 1963
BROSIS Hübner, 1822
DIAPHTHIRUSA Hübner, [1825]
LONGIDUCTUS Zagulajev, 1964
PARANEMAPOGON Zagulajev, 1964
PETALOGRAPHIS Zagulajev, 1963

300105 N. acapnopennella (Clemens, 1863) (Tinea) 261
minutipulnella; (Dietz, 1905) (Tinea) missp.
minutipulvella (Chambers, 1875) (Tinea)
300106 N. angulifasciella (Dietz, 1905) (Tinea) 262
300107 N. auropulvella (Chambers, 1873) (Tinea) 263
auripulvella; (Dietz, 1905) (Tinea) missp.
300108 N. clematella of authors; (not Fabricius, 1781) (Tinea) MISAPPL. [NEW]
NOTE: This European species has been reported in NA on the MPG and BugGuide websites. However, recent genetic and dissection work indicates that NA specimens likely represent an undescribed species (JFL, in litt.). They are retained here under this placeholder name pending taxonomic work.
repandella (Hübner, 1799) (Tinea)
300109 cloacella (Haworth, 1828) (Tinea) I [NEW]
NOTE: European species first found in NA in BC in 2006 (Landry et al. 2013).
infimella Herrich-Schäffer, 1851 (Nemapogon)
nevellus Zagulajev, 1963 (Nemapogon)
300110 N. defectella (Zeller, 1873) (Tinea) 264
300111 N. geniculatella (Dietz, 1905) (Tinea) 265
arcella of authors; (not Fabricius, 1776) (Tinea) misappl.
NOTE: Reports of this Palaearctic species in NA by Dietz (1905) and others refer to *N. geniculatella*; the origin of this record is probably a CA specimen at the Essig Museum, Berkeley, that was originally determined as "*Tinea arcella* Fab." by Walsingham and Dietz.
300112 N. granella (Linnaeus, 1758) (Phalaena) I 266
NOTE: Introduced European species, present in NA for over 100 years (Pohl et al. 2010).
costistrigella; (Dietz, 1905) (Tinea) missp.
costotristrigella (Chambers, 1873) (Tinea)
domesticella (Scopoli, 1763) (Phalaena)
fascomaculella; (Dietz, 1905) (Tinea) missp.
fenestrella (Scopoli, 1763) (Phalaena)
fuscicomella (Wörz, 1958) (Tinea)
fuscomaculella (Chambers, 1873) (Tinea)
mancuniella (Hodgkinson, 1880) (Tinea)
marmorella (Chambers, 1875) (Tinea)
nebulosella (Geoffroy, in: Fourcroy, 1785) (Tinea)
nigra (Dufrane, 1955) (Tinea)
nigroatomella (Dietz, 1905) (Tinea)
tesserella (Fabricius, 1794) (Tinea)
300113 N. interstitiella (Dietz, 1905) (Tinea) 267
300114 N. molybdanella (Dietz, 1905) (Tinea) 268
300115 N. multistriatella (Dietz, 1905) (Tinea) 269
300116 N. ophrionella (Dietz, 1905) (Tinea) 270
300117 N. oregonella (Busck, [1901] 1900) (Tinea) 271
300117.1 N. picarella (Clerck, 1759) (Phalaena) H [NEW]
NOTE: New NA record discovered recently in BC by Dave Holden and confirmed by JFL. Additional records, some collected as early as the 1960s, have since been found across northwestern NA (JFL, unpublished data).
acerella (Treitschke, 1832) (Scardia)
rigaella (Sodoffsky, 1830) (Tinea)
300118 N. rileyi (Dietz, 1905) (Tinea) 272
atriflua (Meyrick, 1919) (Tinea)
300119 N. roburella (Dietz, 1905) (Tinea) 273
300120 N. tylodes (Meyrick, 1919) (Tinea) 274
300121 N. variatella (Clemens, 1859) (Tinea) 275
apicisignatella (Dietz, 1905) (Tinea)
fulvisuffusella (Dietz, 1905) (Tinea)
infimella (Corbet, 1943) (Tinea)
personella (Pierce & Metcalfe, 1934) (Tinea)
secalella (Zacher, 1938) (Tinea)

TINEIDAE "CLADE B" Regier et al., 2014
NOTE: Unnamed subfamily-level clade recovered in the phylogenetic analysis by Regier et al. (2015a).

Genus AUGOLYCHNA Meyrick, 1922

300122 A. septemstrigella (Chambers, 1878) (Tinea) 281

Genus LEUCOMELE Dietz, 1905

300123 L. miriamella Dietz, 1905 (Leucomele) 282

Genus OENOE Chambers, 1874
BAEOPHYLLA Turner, 1933

300124 O. hybromella Chambers, 1874 (Oenoe) 283

Genus HOMOSETIA Clemens, 1863
CALOSTINEA Dietz, 1905
PITYO; Chambers, 1876 missp.
PITYS Chambers, 1873
SEMELE Chambers, 1875

300125 H. argentinotella (Chambers, 1876) (Semele) 284
300126 H. argentistrigella (Chambers, 1873) (Tinea) 285
300127 H. auricristatella (Chambers, 1873) (Pitys) 286
aurocristatella; Dietz, 1905 (Homosetia) missp.
300128 H. bifasciella (Chambers, 1876) (Tinea) 287
obscurella Dietz, 1905 (Homosetia)
300129 H. chrysoadspersella Dietz, 1905 (Homosetia) 288
300130 H. costisignella (Clemens, 1863) (Tinea) 289
300131 H. cristatella (Chambers, 1875) (Pitys) 290
300132 H. fasciella (Chambers, 1873) (Pitys) 291
300133 H. fuscocristatella (Chambers, 1873) (Pitys) 292
300134 H. marginimaculella (Chambers, 1875) (Tinea) 293
maculatella Dietz, 1905 (Homosetia)
maculimarginella; Dietz, 1905 (Homosetia) missp.
300135 H. miscecristatella (Chambers, 1873) (Pitys) 294
300136 H. tricingulatella (Clemens, 1863) (Tinea) 295

Genus STENOPTINEA Dietz, 1905
CELESTICA Meyrick, 1917

300137 S. auriferella (Dietz, 1905) (Homosetia) 296
300138 S. ornatella (Dietz, 1905) (Homosetia) 297

Genus ISOCORYPHA Dietz, 1905

300139 I. chrysocomella Dietz, 1905 (Isocorypha) 298
300140 I. mediostriatella (Clemens, 1865) (Incurvaria) 299
auristrigella (Chambers, 1873) (Tinea)

TINEIDAE "CLADE A" Regier et al., 2014

NOTE: Unnamed subfamily-level clade recovered in the phylogenetic analysis by Regier et al. (2015a).

Genus HYBROMA Clemens, 1862

30 0140.3 H. servulella Clemens, 1862 (Hybroma) 300
aurosuffusella (Chambers, 1873) (Tinea)

Genus XYSTROLOGA Meyrick, 1919
ID INFO: Davis et al. (2012).
ACHANODES Meyrick, 1922
SYRRHOAULA Meyrick, 1932

30 0140.4 X. grenadella (Walsingham, 1897) (Setomorpha) [NEW]
NOTE: This species appears to have expanded recently into southeastern NA from the Caribbean (Davis et al. 2012).
antipathetica (Forbes, 1931) (Achanodes)

Genus HOMOSTINEA Dietz, 1905
HOMOTINEA; Meyrick, 1932 missp.

30 0140.5 H. curviliniella Dietz, 1905 (Homostinea) 301

Genus POMPOSTOLELLA Fletcher, 1940
POMPOSTOLA Meyrick, 1927

30 0140.6 P. charipepla (Meyrick, 1927) (Pompostola) 302

Genus MEA Busck, 1906
PROGONA Dietz, 1905

30 0140.71 M. bipunctella (Dietz, 1905) (Progona) 305
30 0140.72 M. skinnerella (Dietz, 1905) (Progona) 306
floridella (Dietz, 1905) (Progona)

Subfamily TINEINAE Latreille, 1810

Genus PHEREOECA Hinton & Bradley, 1956
ID INFO: Robinson & Nielsen (1993).

30 0140.81 P. allutella (Rebel, 1892) (Tineola) I [NEW]
NOTE: This household pest was confirmed recently from central FL (contributed by JEH).
verna (Meyrick, 1924) (Tinea)
30 0140.82 P. praecox Gozmány & Vari, 1973 (Phereoeca) [NEW]
NOTE: Recently reported in NA, in CA, by Gulmahamad (1997).
30 0141 P. uterella (Walsingham, 1897) (Tineola) [NEW]
barysticta (Meyrick, 1927) (Tinea)
dubitatrix (Meyrick, 1932) (Tinea)
oblitescens (Meyrick, 1924) (Tineola)
pachyspila (Meyrick, 1905) (Tinea)
postulata Gozmány, 1967 (Phereoeca)
walsinghami (Busck, 1933) (Tineola) *[390]*

Genus TRYPTODEMA Dietz, 1905

30 0143 T. sepulchrella Dietz, 1905 (Tryptodema) 391

Genus TINEA Linnaeus, 1758
ID INFO (partial): Robinson (1979).
ACEDES Hübner, 1825
AUTOSES Hübner, 1825
DYSTINEA Börner, 1925
EDOSA Walker, 1866
MONOPINA Zagulajev, 1955
TINEOPIS Zagulajev, 1960

30 0144 T. apicimaculella Chambers, 1875 (Tinea) 392
30 0145 T. behrensella Chambers, 1875 (Tinea) 393
30 0146 T. carnariella Clemens, 1859 (Tinea) 394
30 0147 T. columbariella Wocke, 1877 (Tinea) I 395
NOTE: Introduced from Europe (Landry et al. 2013).
latro Meyrick, 1931 (Tinea)
30 0148 T. croceoverticella Chambers, 1876 (Tinea) 396
30 0149 T. dubiella Stainton, 1859 (Tinea) I 397
NOTE: Introduced from the Palaearctic (Gaedike 2019).
bispinella Zagalujev, 1960 (Tinea)
tenerifi Zagalajev, 1966 (Tinea)
turicencis Müller-Rutz, 1920 (Tinea)
30 0150 T. grumella Zeller, 1873 (Tinea) 398
30 0151 T. irrepta Braun, 1926 (Tinea) 399
30 0152 T. mandarinella Dietz, 1905 (Tinea) 400
bimaculella Chambers, 1873 (Tinea)
30 0153 T. misceella Chambers, 1873 (Tinea) 401
30 0154 T. niveocapitella Chambers, 1875 (Tinea) 402
leucocapitella Busck, 1903 (Tinea)
30 0155 T. occidentella Chambers, 1880 (Tinea) 403
tuscanella Dietz, 1905 (Tinea)
30 0156 T. pallescentella Stainton, 1851 (Tinea) I 404
NOTE: Introduced, probably from South America with sheep, in the 1800s (Powell & Opler 2009). Also introduced to Europe (Gaedike 2019).
coacticella Zagulajev, 1954 (Tinea)
galeatella Mabille, 1888 (Tinea)
horosema Meyrick, 1931 (Tinea)
nigrifoldella Gregson, 1856 (Tinea)
semilineatella Knaben, 1945 (Tinea)
simulatrix Meyrick, 1931 (Tinea)
30 0157 T. pellionella (Linnaeus, 1758) (Phalaena) I 405
NOTE: Introduced from Europe (Landry et al. 2013).
albella Costa, [1836] (Tinea)
demiurga Meyrick, 1920 (Tinea)
gerasimovi Zagulajev, 1978 (Tinea)
pelliomella; Dietz, 1905 (Tinea) missp.
zoolegella (Scopoli, 1763) (Phalaena)
30 0158 T. straminella Chambers, 1873 (Tinea) 406
30 0159 T. svenssoni Opheim, 1965 (Tinea) H [NEW]
NOTE: Holarctic, recently discovered in NA in QC (Landry et al. 2013).
30 0160 T. thoracestrigella Chambers, 1876 (Tinea) 407
30 0161 T. translucens Meyrick, 1917 (Tinea) 408
fortificata Gozmány, 1968 (Tinea)
leonhardi Petersen, 1957 (Tinea)
margaritacea Gozmány, 1967 (Tinea)
metonella Pierce & Metcalfe, 1934 (Tinea)
30 0162 T. unomaculella Chambers, 1875 (Tinea) 409
30 0163 T. xanthostictella Dietz, 1905 (Tinea) 410

Genus NIDITINEA Petersen, 1957
ID INFO: Metz et al. (2018).
TINEIDIA Zagulajev, 1960

30 0164 N. fuscella (Linnaeus, 1758) (Phalaena) H/I [NEW]
abligatella (Walker, 1863) (Tinea)
crinitella (Schrank, 1802) (Tinea)
distans (Gozmány, 1959) (Tinea)
eurinella (Zagulajev, 1952) (Tinea)
frigidella (Packard, 1867) (Oecophora)
fuscipunctella (Haworth, 1828) (Tinea)
griseella (Chambers, 1873) (Tinea)
ignotella (Walker, 1864) (Tinea)
nubilipennella (Clemens, 1859) (Tinea)
spretella ([Denis & Schiffermüller], 1775) (Tinea) *[411]*
30 0165 N. orleansella (Chambers, 1873) (Tinea) 412
30 0165.1 N. sabroskyi Metz & Davis, 2018 (Niditinea) [NEW]

Genus TRICHOPHAGA Ragonot, 1894
ID INFO: Gaedike (2019).

30 0166 T. tapetzella (Linnaeus, 1758) (Phalaena) I 413
NOTE: Introduced from Europe (Gaedike 2019).
greenlandica (Anonymous, 1836) (Tinea)
palaestrica Butler, 1877 (Trichophaga)

Genus CERATOPHAGA Petersen, 1957

30 0167 C. vicinella (Dietz, 1905) (Tinea) 414

Genus MONOPIS Hübner, 1825
BLABOPHANES Zeller, 1852
EUSYNOPA Lower, 1903
HYALOSPILA Herrich-Schäffer, 1853
MONOPINA Zagulajev, 1960
RHITIA Walker, 1864

30 0168 M. crocicapitella (Clemens, 1859) (Tinea) C/I 415
amandatella (Walker, 1863) (Tinea)
cecconii Turati, 1919 (Monopis)
dobrogica Georgesco, 1964 (Monopis)
ferruginella of authors; (not Hübner, 1813) (Tinea) misappl.
heringi (Richardson, 1893) (Blabophanes)
hyalinella (Staudinger, 1870) (Tinea)
lombardica (Hering, 1889) (Tinea)
ptilophaga (Enderlein, 1908) (Blabophanes)
30 0168.1 M. dorsistrigella (Clemens, 1859) (Tinea) 416

subjunctella (Walker, 1863) (Tinea)

300169 M. laevigella ([Denis & Schiffermüller], 1775) (Tinea) C/I [NEW]
NOTE: This species has been widely misidentified as *M. crocicapitella* in NA until recently. It is probably introduced (Forbes 1923).
crocicapitella of authors; (not Clemens, 1859) (Tinea) misid.
rusticella (Hübner, 1813) (Tinea) preocc. *[420]*
NOTE: This widely used name is a junior homonym of *Tinea rusticella* Hübner, 1796.
saturella (Haworth, 1828) (Tinea)

300169.1 M. longella (Walker, 1863) (Tinea) I [NEW]
NOTE: This introduced Asian species was first reported in NA in ON by Beadle & Leckie (2012), under the name *M. pavlovskii*, a synonym.
pavlovskii Zagulajev, 1955 (Monopis)
pseudagyrta Meyrick, 1919 (Monopis)

300172 M. marginistrigella (Chambers, 1873) (Tinea) 417
irrorella Dietz, 1905 (Monopis)

300173 M. monachella (Hübner, 1796) (Tinea) I 418
NOTE: Introduced from Europe (Forbes 1923). BOLD data indicate that this may be a species complex.
mediella (Fabricius, 1794) (Alucita)
monacha Zagulajev, 1972 (Monopis)

300175 M. mycetophilella Powell, 1967 (Monopis) 419

300176 M. spilotella Tengström, 1848 (Monopis) H 421
biflavimaculella (Clemens, 1859) (Tinea)
halospila Meyrick, 1919 (Monopis)
insignisella (Walker, 1863) (Tinea)

300176.1 M. weaverella Scott, 1858 (Monopis) I [NEW]
NOTE: Recent introduction from Europe, first identified by JFL.
nigripilella Réal, 1989 (Monopis)
semispilotella (Strand, 1900) (Blabophanes)

Genus ECCRITOTHRIX Bradley & Hinton, 1956

300177 E. guenterella Koçak, 1986 (Eccritothrix) [NEW]
trimaculella (Chambers, 1873) (Tinea) preocc. *[422]*

Genus PRAEACEDES Amsel, 1954
ID INFO: Robinson & Nielsen (1993), Gaedike (2019).
ANTITINEA Amsel, 1955
TITAENOSES Bradley & Hinton, 1956

300178 P. atomosella (Walker, 1863) (Tinea) [NEW]
NOTE: This species probably originated in the New World, and was subsequently introduced to Europe (Gaedike 2019).
decui (Căpuşe & Georgescu, 1977) (Tinea)
deluccae Amsel, 1954 (Praeacedes)
despecta (Meyrick, 1919) (Tinea)
malgassica (Gozmány, 1970) (Tinea)
seminolella (Beutenmüller, 1889) (Tinea) *[423]*
thecophora (Walsingham, 1908) (Tinea) *[424]*

Genus ELATOBIA Herrich-Schäffer, 1849
ID INFO: Gaedike (2019).
ABACOBIA Dietz, 1905
DIETZIA Busck, 1906
TINEOMINA Staudinger, 1892

300179 E. carbonella (Dietz, 1905) (Abacobia) REV. STAT. 425
NOTE: This species was reported for many years in NA under the name *E. carbonella*. Recently Gaedike (2019) deemed *carbonella* a synonym of the Palaearctic *E. fuliginosella*, but recent morphological and genetic work (Hayden 2022) indicates that NA records are distinct, and the name *carbonella* is reinstated as a valid Nearctic species (n. stat.). The name "*E. martinella* (Walker, 1863)" (now a valid species in the Yponomeutidae genus *Kessleria*) has also been applied historically to this species in NA.
fuliginosella of authors; (not Lienig & Zeller, 1846) (Tinea) misappl.
martinella of authors; (not Walker, 1863) (Tinea) misappl.
severella (Christoph, 1888) (Tinea)

300180 E. montelliella (Schantz, 1951) (Tinea) H [NEW]
NOTE: Reported from NA (AB, UT) by Landry et al. (2013). In Europe it is known only from the holotype, from Finland.

Genus TINEOLA Herrich-Schäffer, 1853
ID INFO: Robinson & Nielsen (1993), Gaedike (2019).

300181 T. bisselliella (Hummel, 1823) (Tinea) C/I 426
anaphecola Gozmány, 1970 (Tineola)
crinella (Sodoffsky, 1830) (Tinea)
destructor (Stephens, 1825) (Tinea)
flavifrontella (Thunberg, 1794) (Tinea)
furciferella Zagulajev, 1954 (Tineola)
lanariella (Clemens, 1859) (Tinea)

Subfamily ERECHTHIINAE Meyrick, 1880

Genus ERECHTHIAS Meyrick, 1880
ID INFO: Robinson & Nielsen (1993).
ACROCENOTES Diakonoff, [1968]
AMPHISYNCENTRIS Meyrick, 1933
ANEMERARCHA Meyrick, 1937
CARYOLESTIS Meyrick, 1934
DECADARCHIS Meyrick, 1886
EMPAESTA Bradley, 1956
ERACHTIAS; Ghesquière, 1940 missp.
ERIUNETIS Meyrick, 1880
GONGYLODES Turner, 1933
HECTACMA Meyrick, 1915
LEPIDOBREGMA Zimmerman, 1978
NEODECADARCHIS Zimmerman, 1978
NESOXENA Meyrick, 1929
PANTHEUS Zimmerman, 1978
TINEXOTAXA Gozmány, 1968
TRIADOGONA Meyrick, 1937

300190 E. minuscula (Walsingham, 1897) (Ereunetis) 304

300190.1 E. zebrina (Butler, 1881) (Argyresthia) I 303
NOTE: Introduced pantropical species, originally described from Hawaii (Robinson & Nielsen 1993).
caustophara Turner, 1923 (Erechthias)
lanceolata (Walsingham, 1897) (Ereunetis)
travestita Gozmány, 1968 (Erechthias)
xenica (Meyrick, 1911) (Ereunetis)

Genus EUPRORA Busck, 1906
NOTE: This genus was excluded from the Yponomeutoidea by Sohn et al. (2013).

300191 E. argentiliniella Busck, 1906 (Euprora) 461

Subfamily HIEROXESTINAE Meyrick, 1893
ID INFO: Davis (1978c).

Genus PHAEOSES Forbes, 1922
CALAMOGRAPTIS Meyrick, 1937

300192 P. sabinella Forbes, 1922 (Phaeoses) 430

Genus OPOGONA Zeller, 1853
CACHURA Walker, 1864
CONCHYLIOSPILA Wallengren, 1861
DENDRONEURA Walsingham, 1892
EXALA Meyrick, 1912
HIEROXESTIS Meyrick, 1893
LISSOCARENA Turner, 1923
LOZOSTOMA Stainton, 1859

300193 O. arizonensis Davis, 1978 (Opogona) 431

300194 O. floridensis Davis, 1978 (Opogona) 432

300195 O. omoscopa (Meyrick, 1892) (Hieroxestis) I 433
NOTE: Introduced; originally from Africa but described from Australia (Davis 1978c).
apicalis Swezey, 1909 (Opogona)
praematura (Meyrick, 1909) (Hieroxestis)
strassenella (Enderlein, 1903) (Gracilaria)

300196 O. purpuriella Swezey, 1913 (Opogona) UNVER. I [NEW]
NOTE: This species is of uncertain occurrence in NA, it was reported from FL on MPG, but that has not been verified. It has also been intercepted in CA (Wikipedia). It was described from Hawaii.

300197 O. sacchari (Bojer, 1856) (Alucita) I [NEW]
NOTE: Recent introduction to FL (and to Europe) (Davis & Pena 1990). The species was described from Mauritius, in the Indian Ocean.
ligniferella (Walker, 1875) (Gelechia)
plumipes (Butler, 1876) (Laverna)
sanctaehelenae (Walker, 1875) (Gelechia)
subcervinella (Walker, 1863) (Tinea)

Genus OINOPHILA Stephens, 1848

300198 O. v-flava (Haworth, 1828) (Gracillaria) C/I 434
NOTE: Cosmopolitan; origin unknown (Davis 1978c).
flavofasciella (Duponchel, 1845) (Elachista)

Subfamily SCARDIINAE Eyer, 1924

ID INFO: Robinson (1986).

Genus MOROPHAGOIDES Petersen, 1957

30.0199 M. berkeleyella (Powell, [1967]) (Scardia) 313
30.0200 M. burkerella (Busck, [1904]) (Scardia) 314
caryophyllella (Busck, 1908) (Scardia)
errandella (Busck, 1908) (Scardia)
gracilis (Walsingham, 1907) (Scardia)
tessulatellus of authors; (not Zeller, 1846) (Euplocamus) misappl.

Genus MONTESCARDIA Amsel, 1952

30.0201 M. fuscofasciella (Chambers, 1875) (Euplocamus) 310
pravatella (Busck, 1908) (Scardia)

Genus DAVISCARDIA Robinson, 1986

30.0202 D. coloradella (Dietz, 1905) (Scardia) 312

Genus SCARDIA Treitschke, 1830
AGARICA Sodoffsky, 1837
DUOMITELLA Koshantschikov, 1923
FERNALDIA Grote, 1881

30.0204 S. amurensis Zagulajev, 1965 (Scardia) I [NEW]
NOTE: Introduced to NA from the eastern Palaearctic, probably to southeastern USA, where it was first found in 1967 (Landry et al. 2013).
30.0204.1 S. anatomella (Grote, 1881) (Fernaldia) 311
fiskeella Busck, 1908 (Scardia)

Genus SCARDIELLA Robinson, 1986

30.0205 S. approximatella (Dietz, 1905) (Scardia) 308

Genus AMOROPHAGA Zagulajev, 1966

30.0206 A. cryptophori (Clarke, 1940) (Morophaga) 309

Genus DIATAGA Walsingham, 1914

30.0207 D. leptosceles Walsingham, 1914 (Diataga) 315

Genus DORATA Busck, 1904
NOTE: Robinson (1986) did not include this genus in the Scardiinae, but he noted that it had some similarities with other members of the subfamily. This genus was placed in Scardiinae in the LepIndex (Beccaloni et al. 2003).
DOROTA; Kearfott, 1907 missp.
PTEROLONCHE Walsingham, 1889

30.0208 D. atomophora Meyrick, 1928 (Dorata) 387
30.0209 D. inornatella Busck, 1904 (Dorata) 388
inorratella; Kearfott, 1907 (Dorata) missp.
30.0210 D. lineata (Walsingham, 1889) (Pterolonche) 389
virgatella Busck, 1904 (Dorata)

Genus PELECYSTOLA Meyrick, 1920
ID INFO: Davis & Davis (2009).
NOTE: Tentatively placed in Scardiinae following Davis & Davis (2009).
NEUROZESTIS Meyrick, 1938
ZULARCHA Meyrick, 1937

30.0210.5 P. nearctica Davis & Davis, 2009 (Pelecystola) [NEW]

[TINEIDAE – Unplaced to Subfamily]

NOTE: The genera here could not be reliably placed within any subfamily.

Genus APRETA Dietz, 1905
EPICHAETA Dietz, 1905

30.0211 A. paradoxella Dietz, 1905 (Apreta) 326
nepotella (Dietz, 1905) (Epichaeta)

Genus MUHABBETIA Koçak, 2005
CORYTHOPHORA Braun, 1915
NOTE: The name *Corythophora* Braun, 1915 is a junior homonym of *Corythophora* Loew, 1862 (Diptera: Ephydridae) and *Corythophora* Stål, 1869 (Hemiptera: Membracidae). Koçak (2005) designated the replacement name *Muhabbetia*, which has been overlooked in recent works. This genus (as *Corythophora*) was placed in Lyonetiidae by Davis (in Hodges et al. 1983), but formally excluded from the Yponomeutoidea by Sohn et al. (2013); that genetic analysis placed it firmly within the Tineidae.

30.0212 M. aurea (Braun, 1915) (Corythophora) 476

Genus DIACHORISIA Clemens, 1860

30.0213 D. velatella Clemens, 1860 (Diachorisia) 279
fuscopulvella (Chambers, 1873) (Tinea)
maculabella (Chambers, 1873) (Tinea)

Genus DYOTOPASTA Busck, 1907
DYSTOPASTA; McDunnough, 1939 missp.
PSEUDOXYLESTHIA Walsingham, 1907

30.0214 D. yumaella (Kearfott, 1907) (Plutella) 322
angustella (Walsingham, 1907) (Pseudoxylesthia)

Genus HYPOPLESIA Busck, 1906
PARAPLESIA Dietz, 1905

30.0215 H. busckiella (Dietz, 1905) (Paraplesia) 320
respersa (Meyrick, 1919) (Myrmecozela)
30.0216 H. dietziella Busck, 1913 (Hypoplesia) 321

Genus PHILONOME Chambers, 1874
ID INFO: Sohn et al. (2015b).
NOTE: Placed in Lyonetiidae by Davis (in Hodges et al. 1983), but formally excluded from the Yponomeutoidea by Sohn et al. (2013); that genetic analysis placed it firmly within the Tineidae.

30.0218 P. wielgusi Sohn & Davis, 2015 (Philonome) [NEW]
30.0219 P. nigrescens Sohn & Davis, 2015 (Philonome) [NEW]
30.0220 P. clemensella Chambers, 1874 (Philonome) 462
staintonella Chambers, 1876 (Philonome)

Genus PHRYGANEOPSIS Walsingham, 1881
SETONELLA McDunnough, 1927

30.0221 P. brunnea Walsingham, 1881 (Phryganeopsis) 318
buscki (McDunnough, 1927) (Setonella)

Genus TENAGA Clemens, 1862
ID INFO: Robinson & Nielsen (1993).
LICHENOVORA Petersen, 1957
MACRAEOLA Meyrick, 1893

30.0221.5 T. nigripunctella (Haworth, 1828) (Tinea) I? [NEW]
NOTE: The synonymy of *T. pomiliella* was made by Robinson & Nielsen (1993) in their treatment of the Australian fauna, and had been overlooked in recent NA lists.
linobola (Meyrick, 1893) (Macraeola)
moeniella (Rössler, 1877) (Tinea)
pomiliella Clemens, 1862 (Tenaga) *[323]*
sesquitertia (Meyrick, 1909) (Tinea)

Genus XYLESTHIA Clemens, 1859
XYLESTIA; Dyar, 1903 missp.

30.0222 X. albicans Braun, 1923 (Xylesthia) 316
30.0223 X. pruniramiella Clemens, 1859 (Xylesthia) 317
clemensella Chambers, 1873 (Xylesthia)
congeminatella Zeller, 1873 (Xylesthia)
kearfottella Dietz, 1905 (Xylesthia)

Superfamily GRACILLARIOIDEA Stainton, 1854

18. Family BUCCULATRICIDAE Fracker, 1915 (ribbed cocoon-maker moths)

by Charles S. Eiseman

Bucculatricids are very small moths, with wingspans of 4 to 12 mm. The single NA genus, *Bucculatrix*, was placed in Tineoidea: Lyonetiidae by Davis (in Hodges et al. 1983). Although now recognized as a family within Gracillarioidea, phylogenetic analyses have found Bucculatricidae difficult to place (Kawahara et al. 2011), and forming a monophyletic superfamily may ultimately require merging Gracillarioidea into Yponomeutoidea (Sohn et al. 2013).

Bucculatrix adults can be recognized by the elongate pointed face, vertex with a tuft of erect hairlike scales, and presence of an eye cap at the base of the antenna. The forewing often has a patch of raised black scales near the middle of its trailing margin. In most species, the first two larval instars form linear leaf mines and older larvae feed externally, eating small patches out from the lower leaf surface. Typically the third- and fourth-instar larvae spin thin, flat molting cocoons on the underside of the leaf. A few species mine leaves throughout larval development, or instead, feed in stems where they may induce galls. The fifth-instar larva spins a dense elongate pupation cocoon, with more or less distinct longitudinal ridges and sometimes surrounded by an elliptical “palisade” of upright pillars of silk. Approximately two-thirds of the Nearctic species are associated with Asteraceae and most of the remainder with trees and shrubs in the order Fagales.

Bucculatricidae is represented on every vegetated continent, with about 300 species known worldwide and 104 in NA. The life history (or at least one host plant) is known for about 75% of described Nearctic species. Braun (1963) revised the NA fauna; four additional species have since been described from TX (Blanchard & Knudson 1985b), AK and western Canada (Deschka 1992), and CA (Rubinoff & Osborne 1997). Eiseman (2022) tentatively reported one European species from MA and provided information about five undescribed species known from AZ, FL, NC, and OK; many more likely remain to be discovered.

Genus BUCCULATRIX Zeller, 1839

ID INFO: Braun (1963); also Blanchard & Knudson (1985b), Deschka (1992), Rubinoff & Osborne (1997).

CEROCLASTIS Zeller, 1848

33a0001 B. fusicola Braun, 1920 (Bucculatrix) 484
33a0002 B. solidaginiella Braun, 1963 (Bucculatrix) 485
33a0003 B. montana Braun, 1920 (Bucculatrix) 486
33a0004 B. magnella Chambers, 1875 (Bucculatrix) 487
33a0005 B. needhami Braun, 1956 (Bucculatrix) 488
33a0006 B. longula Braun, 1963 (Bucculatrix) 489
33a0007 B. simulans Braun, 1963 (Bucculatrix) 490
33a0008 B. niveella Chambers, 1875 (Bucculatrix) 491
33a0009 B. parvinotata Braun, 1963 (Bucculatrix) 492
33a0010 B. ochritincta Braun, 1963 (Bucculatrix) 493
33a0011 B. viguierae Braun, 1963 (Bucculatrix) 494
33a0012 B. micropunctata Braun, 1963 (Bucculatrix) 495
33a0013 B. inusitata Braun, 1963 (Bucculatrix) 496
33a0014 B. seneciensis Braun, 1963 (Bucculatrix) 497
33a0015 B. bicristata Braun, 1963 (Bucculatrix) 498
33a0016 B. cuneigera Meyrick, 1919 (Bucculatrix) 499
errans Braun, 1920 (Bucculatrix)
33a0017 B. albaciliella Braun, 1910 (Bucculatrix) 500
33a0018 B. ochristrigella Braun, 1910 (Bucculatrix) 501
33a0019 B. eurotiella Walsingham, 1907 (Bucculatrix) 502
chrysothamni Braun, 1925 (Bucculatrix)
33a0020 B. tenebricosa Braun, 1925 (Bucculatrix) 503
33a0021 B. ericameriae Braun, 1963 (Bucculatrix) 504
33a0022 B. variabilis Braun, 1910 (Bucculatrix) 505
33a0023 B. dominatrix Rubinoff & Osborne, 1997 (Bucculatrix) [NEW]
33a0024 B. separabilis Braun, 1963 (Bucculatrix) 506
33a0025 B. brunnescens Braun, 1963 (Bucculatrix) 507
33a0026 B. evanescens Braun, 1963 (Bucculatrix) 508
33a0027 B. benenotata Braun, 1963 (Bucculatrix) 509
33a0028 B. floccosa Braun, 1923 (Bucculatrix) 510
33a0029 B. flourensiae Braun, 1963 (Bucculatrix) 511
33a0030 B. franseriae Braun, 1963 (Bucculatrix) 512
33a0031 B. staintonella Chambers, 1878 (Bucculatrix) 513
pertenuis Braun, 1918 (Bucculatrix)
33a0032 B. immaculatella Chambers, 1875 (Bucculatrix) 514
33a0033 B. agnella Clemens, 1860 (Bucculatrix) 515
albicapitella Chambers, 1875 (Bucculatrix)
capitealbella Chambers, 1873 (Bucculatrix)
33a0034 B. kimballi Braun, 1963 (Bucculatrix) 516
33a0035 B. ivella Busck, 1900 (Bucculatrix) 517
33a0036 B. ambrosiaefoliella Chambers, 1875 (Bucculatrix) 518
rileyi Frey & Boll, 1876 (Bucculatrix)
33a0037 B. pallidula Braun, 1963 (Bucculatrix) 519
33a0038 B. taeniola Braun, 1963 (Bucculatrix) 520
33a0039 B. carolinae Braun, 1963 (Bucculatrix) 521
33a0040 B. angustata Frey & Boll, 1876 (Bucculatrix) 522
crescentella Braun, 1916 (Bucculatrix)
33a0041 B. adelpha Braun, 1963 (Bucculatrix) 523
33a0042 B. plucheae Braun, 1963 (Bucculatrix) 524
33a0043 B. eupatoriella Braun, 1918 (Bucculatrix) 525
33a0044 B. kendalli Blanchard & Knudson, 1985 (Bucculatrix) [NEW]
33a0045 B. polymniae Braun, 1963 (Bucculatrix) 526
33a0046 B. speciosa Braun, 1963 (Bucculatrix) 527
33a0047 B. subnitens Walsingham, 1914 (Bucculatrix) 528
33a0048 B. sexnotata Braun, 1927 (Bucculatrix) 529
33a0049 B. divisa Braun, 1925 (Bucculatrix) 530
33a0050 B. illecebrosa Braun, 1963 (Bucculatrix) 531
33a0051 B. insolita Braun, 1918 (Bucculatrix) 532
33a0052 B. transversata Braun, 1910 (Bucculatrix) 533
33a0053 B. koebelella Busck, 1910 (Bucculatrix) 534
33a0054 B. salutatoria Braun, 1925 (Bucculatrix) 535
33a0055 B. leptalea Braun, 1963 (Bucculatrix) 536
33a0056 B. arnicella Braun, 1925 (Bucculatrix) 537
33a0057 B. tridenticola Braun, 1963 (Bucculatrix) 538
33a0058 B. spectabilis Braun, 1963 (Bucculatrix) 539
33a0059 B. seorsa Braun, 1963 (Bucculatrix) 540
33a0060 B. angustisquamella Braun, 1925 (Bucculatrix) 541
33a0061 B. columbiana Braun, 1963 (Bucculatrix) 542
33a0062 B. sororcula Braun, 1963 (Bucculatrix) 543
33a0063 B. nigripunctella Braun, 1923 (Bucculatrix) 544
33a0064 B. atrosignata Braun, 1963 (Bucculatrix) 545
33a0065 B. enceliae Braun, 1963 (Bucculatrix) 546

33a0066 B. latella Braun, 1918 (Bucculatrix) 547
33a0066.1 B. frigida Deschka, 1992 (Bucculatrix) [NEW]
33a0066.2 B. ratisbonensis Stainton, 1861 (Bucculatrix) UNVER. I?[NEW]

NOTE: As noted by Eiseman (2022), Steven Whitebread has reared a male that appears to be this European species from *Artemisia campestris* L. (Asteraceae) in Provincetown, MA. He reports that the specimen is definitely not any of the known NA *Artemisia* feeders and the genitalia correspond fairly well with published illustrations of *B. ratisbonensis*, but he feels that the illustrations he has found are inadequate and considers the identification tentative (S. Whitebread, pers. comm.). The specimen is in his personal collection.

33a0067 B. tetradymiae Osborne & Rubinoff, 1997 (Bucculatrix) [NEW]
33a0068 B. sporobolella Busck, 1910 (Bucculatrix) 548
33a0069 B. packardella Chambers, 1873 (Bucculatrix) 549
33a0070 B. albertiella Busck, 1910 (Bucculatrix) 550
tetrella Braun, 1910 (Bucculatrix)
33a0071 B. coniforma Braun, 1963 (Bucculatrix) 551
33a0072 B. platyphylla Braun, 1963 (Bucculatrix) 552
33a0073 B. ochrisuffusa Braun, 1963 (Bucculatrix) 553
33a0074 B. trifasciella Clemens, 1866 (Bucculatrix) 554
obscurofasciella Chambers, 1873 (Bucculatrix)
33a0075 B. quinquenotella Chambers, 1875 (Bucculatrix) 555
33a0076 B. domicola Braun, 1963 (Bucculatrix) 556
33a0077 B. zophopasta Braun, 1963 (Bucculatrix) 557
33a0078 B. litigiosella Zeller, 1876 (Bucculatrix) 558
33a0079 B. coronatella Clemens, 1860 (Bucculatrix) 559
33a0080 B. canadensisella Chambers, 1875 (Bucculatrix) 560
33a0081 B. improvisa Braun, 1963 (Bucculatrix) 561
33a0082 B. polytita Braun, 1963 (Bucculatrix) 562
33a0083 B. luteella Chambers, 1873 (Bucculatrix) 563
33a0084 B. recognita Braun, 1963 (Bucculatrix) 564
33a0085 B. paroptila Braun, 1963 (Bucculatrix) 565
33a0086 B. fugitans Braun, 1930 (Bucculatrix) 566
33a0087 B. callistricha Braun, 1963 (Bucculatrix) 567
33a0088 B. eugrapha Braun, 1963 (Bucculatrix) 568
33a0089 B. cerina Braun, 1963 (Bucculatrix) 569
33a0090 B. copeuta Meyrick, 1919 (Bucculatrix) 570
33a0091 B. locuples Meyrick, 1919 (Bucculatrix) 571
33a0092 B. ainsliella Murtfeldt, 1905 (Bucculatrix) 572

NOTE: This species has recently become common on Northern Red Oak (Fagaceae: *Quercus rubra* L.) in western Europe, with the earliest record being from the Netherlands in 1989 (van Nieukerken et al. 2012b).

33a0093 B. eclecta Braun, 1963 (Bucculatrix) 573
33a0094 B. anaticula Braun, 1963 (Bucculatrix) 574
33a0095 B. disjuncta Braun, 1963 (Bucculatrix) 575
33a0096 B. ceanothiella Braun, 1918 (Bucculatrix) 576
33a0097 B. pomifoliella Clemens, 1860 (Bucculatrix) 577
curvilineatella (Packard, 1869) (Lithocolletis)
pomonella Packard, 1880 (Bucculatrix)
33a0098 B. ilecella Busck, 1915 (Bucculatrix) 578
33a0099 B. quadrigemina Braun, 1918 (Bucculatrix) 579
althaeae Busck, 1919 (Bucculatrix)
33a0100 B. gossypiella Morrill, 1927 (Bucculatrix) 580
33a0101 B. sphaeralceae Braun, 1963 (Bucculatrix) 581
33a0102 B. thurberiella Busck, 1914 (Bucculatrix) 582

19. Family GRACILLARIIDAE Stainton, 1854 (leaf blotch miner moths and allies)

by Charles S. Eiseman & Donald R. Davis

Gracillariids are very small moths, with wingspans of 4 to 21 mm. We follow Kawahara et al. (2017) and Li et al. (2022) in recognizing eight subfamilies (plus a ninth not known from NA), up from three used by Davis (in Hodges et al. 1983). They are presented here beginning with the most basal group, with the genera and species listed in alphabetical order within each subfamily. De Prins et al. (2019) reduced several of these subfamilies to tribes but gave no justification, and the analysis by Li et al. (2022) found that the resulting larger subfamilies were not monophyletic, so those groupings are not employed herein.

Adult gracillariids typically rest in an upright posture, with the head held high and the tips of the slender, broadly fringed wings against the substrate, although in Lithocolletinae, Phyllocnistinae, and some Ornixolinae, the head is held level with or below the abdomen. The head is smooth-scaled in most subfamilies, but in Lithocolletinae, Parornichinae, and some Ornixolinae, the vertex has a tuft of erect, hairlike scales. The filiform antennae are about as long as the forewings. Larvae are mostly host-specific leaf miners of a wide variety of woody and herbaceous plants (although most Marmarinae are instead miners in bark or fruit). They are hypermetamorphic, with at least the first two instars being flattened legless sap feeders that do not spin silk; older larvae are usually tissue feeders that have a cylindrical body as well as legs and a functional spinneret. The common name “leaf blotch miners” is suitable for many species, but Phyllocnistinae, Oecophyllembiinae, and most Marmarinae form entirely linear mines. Older larvae of many Gracillariinae and Parornichinae use silk to fold or roll leaves and then feed externally on leaf tissue within these shelters. Depending on the species, pupation may be within the mine or in a flat oval cocoon spun elsewhere, its surface sometimes decorated with characteristic “frothy bubbles”.

Since Dietz’s (1907) treatment of Parornichinae and Braun’s (1908) revision of Lithocolletinae, the only genera to be fully revised are *Eucosmophora* (Davis & Wagner 2005) and *Macrosaccus* (Davis & De Prins 2011). In the past 40 years there have been revisions of the *Cameraria* species feeding on CA Fagaceae (Opler & Davis 1981), *Phyllonorycter* feeding on apple (*Malus* spp.; Rosaceae) (Landry & Wagner 1995), *Phyllonorycter* feeding on Salicaceae (Davis & Deschka 2001), and *Phyllocnistis* feeding on *Persea* spp. (Lauraceae) (Davis & Wagner 2011). The generic placement of ten species has changed since Davis (in Hodges et al. 1983), and we introduce seven additional new combinations in this list. Further such changes will be necessary — two species on the list belong to undescribed genera, and at least six others are known to be misplaced, but their correct placement is uncertain. Sixteen species described by Doğanlar & Mutuura (1980), Opler & Davis (1981), and Deschka (1982) were omitted from the 1983 checklist, and another 18 were described between 2001 and 2017. An additional 19 species described from outside NA are now recognized in our fauna, including three tentatively included here based on DNA barcoding data, and three that are senior synonyms of species recognized by Davis (in Hodges et al. 1983). Currently, 315 species are recognized in the NA fauna, with well over 100 remaining to be described. Worldwide, about 2,000 species are recognized; information about all of them is available in a continually updated online database (De Prins & De Prins 2022), an update of the printed catalog by De Prins & De Prins (2005).

Subfamily ORNIXOLINAE Kuznetzov & Baryshnikova, 2001

Genus APOPHTHISIS Braun, 1915

33a0103 A. congregata Braun, 1923 (Apophthisis) 660
33a0104 A. pullata Braun, 1915 (Apophthisis) 661

Genus CHILEOPTILIA Vargas & Landry, 2005

ID INFO: Vargas & Landry (2005).

33a0105 C. yaroella Vargas & Landry, 2005 (Chileoptilia) [NEW]
NOTE: This species was described from Chile, where the larvae feed on flowers of *Vachellia macracantha* (Humb. & Bonpl. ex Willd.) Seigler & Ebinger (Fabaceae) (Vargas & Landry 2005). Specimens have since been identified from Costa Rica via DNA barcoding. In 2019, Ann Hendrickson reared a moth from a cocoon found on *Mimosa texana* (A. Gray) Small (Fabaceae) in Edwards Co., TX. DNA barcoding showed 98.93% similarity with a Chilean specimen of *C. yaroella* and up to 99.85% similarity with the Costa Rican material. Unfortunately the TX specimen was destroyed and cannot be examined.

Genus MICRURAPTERYX Spuler, 1910

ID INFO: Kirichenko et al. (2016).

33a0106 M. occulta (Braun, 1922) (Parectopa) 654
albicostella (Braun, 1925) (Parectopa) *[648]*
33a0107 M. salicifoliella (Chambers, 1872) (Gracillaria) 647
33a0108 M. thermopsella (Chambers, 1875) (Gracilaria)
N. COMB.; ident. uncert. 658
NOTE: This species was listed under *Parectopa* by Davis (in Hodges et al. 1983). Its identity is uncertain, since no confirmed specimens are known, but we transfer it to *Micrurapteryx* (n. comb.), based on the following: 1) the forewing has a white dorsal margin as in other Nearctic members of this genus; 2) the gracillariid leaf mines we have found on *Thermopsis* in CO (the type host and locality of *M. thermopsella*) look identical to those of *M. occulta* and unlike those of the Fabaceae-feeding *Parectopa* species (Eiseman 2022); and 3) in the USNM are two old, poor, inadequately labeled specimens of a *Micrurapteryx* distinct from *M. occulta* and *M. salicifoliella*, in the same tray with leaves of *Thermopsis montana* Nutt. from CO (but it is not known for certain that the moths came from these leaves). The identity of *M. thermopsella* will not be resolved until new specimens can be reared from *Thermopsis* (Fabaceae).

Genus NEUROBATHRA Ely, 1917

33a0109 N. bohartiella Opler, 1971 (Neurobathra) 662
33a0110 N. curcassi Busck, 1934 (Neurobathra) [NEW]
NOTE: This species was reported from FL by Heppner (2007).
33a0111 N. strigifinitella (Clemens, 1860) (Gracilaria) 663
duodecemlineella (Chambers, 1872) (Gracillaria) emend.
quercifoliella (Chambers, 1875) (Gracilaria)

Genus NEUROSTROTA Ely, 1918
NEUROSTRATA; Ely, 1918 missp.

33a0112 N. gunniella (Busck, 1906) (Gracilaria) 646

Genus PARECTOPA Clemens, 1860

33a0113 P. bosquella (Chambers, 1876) (Gracilaria) emend. 649
NOTE: In the original description (Chambers 1876), this species was misspelled "*G. basquella*". Although Chambers (1877) did not explicitly state that he was making a correction when he used the spelling "*G. bosquella*", the original description includes the correct spelling of Bosque Co., TX, for which the species was obviously named. We interpret this as "clear evidence of an inadvertent error, such as a *lapsus calami* or a copyist's or printer's error," which must be corrected according to ICZN Article 32.5.1.
basquella; (Chambers, 1876) (Gracilaria) orig. missp.
33a0114 P. geraniella Braun, 1935 (Parectopa) 651
33a0115 P. interpositella (Frey & Boll, 1876) (Gracilaria) 652
33a0116 P. lespedezaefoliella Clemens, 1860 (Parectopa) 653
lespedezifoliella; Meyrick, 1912 (Parectopa) emend.
mirabilis (Frey & Boll, 1873) (Gracilaria)
33a0117 P. plantaginisella (Chambers, 1872) (Gracillaria) 656
erigeronella (Chambers, 1877) (Gracilaria)
geiella (Chambers, 1874) (Gracilaria)
33a0118 P. robiniella Clemens, 1863 (Parectopa) 657
NOTE: This species is likely synonymous with *P. lespedezaefoliella*, but the types have not yet been compared to confirm this. It is now common on Black Locust (*Robinia pseudoacacia* L.; Fabaceae) in Europe, with the first record being from Italy in 1970 (Mally et al. 2021).

Genus "PARECTOPA" Clemens, 1860 PROV. PL.

33a0119 P. bumeliella Braun, 1939 (Parectopa) mispl. 650
NOTE: This species is misplaced in *Parectopa*; it belongs to an as yet undescribed genus.

[ORNIXOLINAE – NO GENUS]

33a0120 []. quinquistrigella (Chambers, 1875) (Gracilaria) N. COMB. 694
NOTE: This species was listed in *Acrocercops* by Davis (in Hodges et al. 1983). CSE has reared adults that match the holotype externally (Eiseman 2022), and the larval biology together with the appearance of the adult indicate that *G. quinquistrigella* belongs in Ornixolinae rather than Acrocercopinae. The leafmine is similar to those of both acrocercopines and ornixolines, but the larva does not turn red in its final instar, as is said to be an apomorphy for Acrocercopinae (Kawahara et al. 2017). Since we are uncertain as to the correct generic placement of this species but it is clearly not an *Acrocercops*, we have provisionally placed it in Ornixolinae without a genus (n. comb.).

Subfamily PARORNICHINAE Kawahara & Ohshima, 2016

ID INFO: Dietz (1907).

Genus CALLISTO Stephens, 1834
ANNICKIA Gibeaux, 1990

33a0121 C. denticulella (Thunberg, 1794) (Tinea) H/I 664
guttea (Haworth, 1828) (Gracillaria)
guttiferella (Duponchel, [1838-1840]) (Oecophora)
gyllenhalella (Thunberg, 1794) (Tinea)
malinella (Hübner, 1813) (Tinea)
marginimaculella (Eversmann, 1844) (Oecophora)

Genus PARORNIX Spuler, 1910

33a0122 P. alta (Braun, 1925) (Ornix) 665
alata (Needham, Frost & Tothill, 1928) (Ornix)
33a0123 P. anglicella (Stainton, 1850) (Ornix) UNVER. I? [NEW]
NOTE: Walsingham (1883) reported this species from NA and Dietz (1907) included it, citing Walsingham and stating that it occurs in New England. However, no other NA specimens of *P. anglicella* are known. Walsingham's purported NA *P. anglicella* material has not been examined so we are unable to comment on its identity.
33a0124 P. arbitrella (Dietz, 1907) (Ornix) 666
33a0125 P. arbutifoliella (Dietz, 1907) (Ornix) 667
33a0126 P. betulae (Stainton, 1854) (Ornix) H [NEW]
NOTE: Landry et al. (2013) documented the presence of *P. betulae* in BC, ON, and QC, and presumed it to be a native (Holarctic) species that had been previously overlooked in NA.
scutulatella (Stainton, 1854) (Ornix)
33a0127 P. boreasella (Clemens, 1864) (Ornix) 668
boreella; (Meyrick, 1912) (Ornix) emend.
33a0128 P. conspicuella (Dietz, 1907) (Ornix) 669
33a0129 P. crataegifoliella (Clemens, 1860) (Ornix) 670
33a0130 P. dubitella (Dietz, 1907) (Ornix) 671
33a0131 P. festinella (Clemens, 1860) (Ornix) 672
33a0132 P. geminatella (Packard, 1869) (Lithocolletis) 673
pruinrosella; (Chambers, 1875) (Ornix) missp.
prunivorella (Chambers, 1873) (Ornix)
33a0133 P. innotata (Walsingham, 1907) (Ornix) 674
NOTE: This species may be synonymous with *P. festinella*, but the type of the latter has not yet been examined to confirm this.
33a0134 P. inusitatumella (Chambers, 1873) (Ornix) 675
inusitatella; (Meyrick, 1912) (Ornix) emend.
33a0135 P. kalmiella (Dietz, 1907) (Ornix) 676
palmiella (Needham, Frost & Tothill, 1928) (Ornix)
33a0136 P. loganella (Stainton, 1848) (Argyromiges) UNVER. H? [NEW]
NOTE: Specimens from BC, AB, MB, ON, and QC have been associated with *P. loganella* based on BOLD data. They were listed in Appendix 1 of Landry et al. (2013) as "Parornix DRD30", based on their matching unpublished genitalia drawings from DRD of a specimen from MI. In addition, Steven Whitebread (in litt.) has reared adults in MA from *Betula papyrifera* Marshall and *B. populifolia* Marshall (Betulaceae) that closely match Scottish material of *P. loganella*.
distinctella (Nolcken, 1870) (Ornix)
33a0137 P. melanotella (Dietz, 1907) (Ornix) 677
33a0138 P. obliterella (Dietz, 1907) (Ornix) 678
33a0139 P. peregrinaella (Darlington, 1949) (Callisto) 679
33a0140 P. preciosella (Dietz, 1907) (Ornix) 680
33a0141 P. quadripunctella (Clemens, [1862]) (Ornix) 681
ssp. a. quadripunctella (Clemens, 1861) (Ornix)
ssp. b. albifaciella (Dietz, 1907) (Ornix)
NOTE: Described as a variety of *P. quadripunctella*, but treated as a subspecies by Davis (in Hodges et al. 1983).
albifasciella; de Prins & de Prins, 2005 (Parornix) missp.
33a0142 P. solitariella (Dietz, 1907) (Ornix) REV. STAT. 681.1
NOTE: Dietz (1907) described *solitariella* as a variety of *Ornix guttea*, which is now considered a synonym of *Callisto denticulella*. The combination *Parornix solitariella* (Dietz, 1907) was introduced by Davis (in Hodges et al. 1983). De Prins & De Prins (2005) listed *O. guttea* var. *solitariella* as a synonym of *C. denticulella*, but DRD has examined the type (from Washington state, not Washington, D.C. as stated by Dietz) and we reaffirm its status as a valid species of *Parornix* (rev. stat.).
33a0143 P. spiraeifoliella (Braun, 1918) (Ornix) 682
33a0144 P. strobivorella (Dietz, 1907) (Ornix) 683
33a0145 P. texanella (Busck, 1906) (Coriscium) 684
33a0146e P. trepidella (Clemens, 1860) (Ornix) EXCL.; nom. dub. 685
NOTE: The type is lost and the original description is insufficiently detailed to identify this taxon.
33a0147 P. vicinella (Dietz, 1907) (Ornix) 686

Subfamily GRACILLARIINAE Stainton, 1854

Genus ARISTAEA Meyrick, 1907

33a0148 A. pennsylvaniella (Engel, 1907) (Gracilaria) N. COMB. 655
NOTE: This species was listed in *Parectopa* by Davis (in Hodges et al. 1983). JFL (in litt.) pointed out that the genitalia place it in *Aristaea*, so it is hereby transferred there (n. comb.). The larval habits and host plant are also similar to those of the European *A. pavoniella* (Zeller, 1847) (which was also historically misplaced in *Parectopa*) as well as to those of the Japanese species described by Kumata (1977).

Genus CALOPTILIA Hübner, 1825
ANTIOLOPHA Meyrick, 1894
CORISCIUM Zeller, 1839
ORNIX Treitschke, 1833
POECILOPTILIA Hübner, 1825
TIMODORA Meyrick, 1894

33a0149 C. aceriella (Chambers, 1881) (Gracilaria) 583
33a0150 C. acerifoliella (Chambers, 1875) (Gracilaria) 584
33a0151 C. agrifoliella Opler, 1971 (Caloptilia) 585
33a0152 C. alnicolella (Chambers, 1875) (Gracilaria) 586
33a0153 C. alnivorella (Chambers, 1875) (Gracilaria) 587
elongella of authors; (not Linnaeus, 1761) (Phalaena) misid.
NOTE: The Palaearctic species *C. elongella* was reported in NA by Forbes (1923) under a previous taxonomic arrangement; some NA records refer to *C. alnivorella*, but see discussion under *C. elongella*.
33a0154 C. amphidelta (Meyrick, 1918) (Gracilaria) 588
33a0155 C. anthobaphes (Meyrick, 1921) (Gracilaria) 589
33a0156 C. asplenifoliatella (Darlington, 1949) (Gracilaria) 590
NOTE: This species is possibly synonymous with *C. flavella*.
33a0157 C. atomosella (Zeller, 1873) (Gracilaria) 591
33a0158 C. azaleella (Brants, 1913) (Gracilaria) I 592
NOTE: Introduced, either from Europe or Japan, to NY in 1911; it reached CA by the 1960s (Powell & Opler 2009).
anthracosperma (Meyrick, 1931) (Gracilaria)

azaleae (Busck, 1914) (Gracilaria)

33a0159 C. behrensella (Chambers, 1876) (Gracilaria) 593

33a0160 C. belfragella (Chambers, 1875) (Gracilaria) [NEW]
NOTE: Chambers (1875a) described this moth under the species name *belfragella* on p. 8 in January 1875, and then repeated a description of nearly identical wording (obviously of the same moth) on p. 92 in May 1875 in a later issue of the same volume, under the species name "*belfrageella*", and for some reason, the latter was the name that was picked up and passed along in subsequent literature. However, De Prins & De Prins (2005) noted the correct spelling.
auriferella (Frey & Boll, 1876) (Gracilaria)
belfrageella; (Chambers, 1875) (Gracilaria) missp. [594]

33a0161 C. betulivora (McDunnough, 1946) (Gracillaria) 594.1

33a0162 C. bimaculatella (Ely, 1915) (Gracilaria) 595

33a0163 C. blandella (Clemens, 1864) (Gracilaria) 596
juglandivorella (Chambers, 1873) (Gracilaria)

33a0164 C. burgessiella (Zeller, 1873) (Gracilaria) 597

33a0165 C. burserella (Busck, 1900) (Gracilaria) 598

33a0166 C. canadensisella (McDunnough, 1956) (Gracillaria) 599

33a0167 C. cornusella (Ely, 1915) (Gracilaria) 600

33a0168 C. coroniella (Clemens, 1864) (Gracilaria) 601

33a0169 C. diversilobiella Opler, 1969 (Caloptilia) 602

33a0170 C. elongella (Linnaeus, 1761) (Phalaena) UNVER. I? [NEW]
NOTE: This is a Palaearctic species and no confirmed specimens are known from NA. Pohl & Landry (in Pohl et al. 2018) stated that historical reports of *C. elongella* in NA refer to *C. alnivorella*, but the situation is more complicated. Busck (1904), for instance, concluded that *alnicolella*, *alnivorella*, *fuscoochrella*, *nigristrigella*, *pulchella*, *ruptistrigella* (misspelled "*ruptostrigella*" therein), *sanguinella*, and *shastella* (misspelled "*shastaella*" therein) all represented varieties of *C. elongella*, but three of these names (*alnicolella*, *alnivorella*, and *pulchella*) are currently recognized as valid. More recently, Passoa (1980) reported rearing *C. elongella* from *Betula alleghaniensis* Britton (Betulaceae) in NH. As noted by Eiseman (2022), Steven Passoa still has one of the specimens in his possession but it is missing its abdomen; an attempt by JFL to extract DNA failed, and its true identity is unclear.

33a0171E C. falconipennella (Hübner, 1813) (Tinea) EXCL. [NEW]
NOTE: Zeller (1873) reported collecting this European species in TX, but this is presumed to have been a misidentification; no NA specimens are known.

33a0172 C. ferruginella (Braun, 1918) (Gracilaria) 603

33a0173 C. flavella (Ely, 1915) (Gracilaria) 604

33a0174 C. flavimaculella (Ely, 1915) (Gracilaria) 605

33a0175 C. fraxinella (Ely, 1915) (Gracilaria) 606
cuculipennella of authors; (not Hübner, 1796) (Tinea) misappl.
NOTE: Forbes (1923) used this Palaearctic name in error, for *C. fraxinella*.

33a0176 C. glutinella (Ely, 1915) (Gracilaria) 607

33a0177 C. hypericella (Braun, 1918) (Gracilaria) 608

33a0178 C. invariabilis (Braun, 1927) (Gracilaria) 609

33a0179 C. juglandiella (Chambers, 1872) (Gracillaria) 610
juglandisnigracella; (Chambers, 1873) (Gracilaria) missp.
juglandisnigrella; (Chambers, 1872) (Gracilaria) emend.

33a0180 C. macranthes (Meyrick, 1928) (Gracilaria) 611

33a0181 C. melanocarpae (Braun, 1925) (Gracilaria) 612

33a0182 C. minimella (Ely, 1915) (Gracilaria) 613

33a0183 C. negundella (Chambers, 1876) (Gracilaria) 615

33a0184 C. nondeterminata (Braun, 1939) (Gracilaria) 616

33a0185 C. obscuripennella (Frey & Boll, 1876) (Gracilaria) 617

33a0186 C. ostryaeella (Chambers, 1878) (Gracilaria) 618

33a0187 C. ovatiella Opler, 1969 (Caloptilia) 619

33a0188 C. packardella (Chambers, 1872) (Gracillaria) 620
alchimiella of authors; (not Scopoli, 1763) (Phalaena) misappl.
elegantella (Frey & Boll, 1873) (Gracilaria)
inornatella (Chambers, 1876) (Gracilaria)

33a0189 C. palustriella (Braun, 1910) (Gracilaria) 621

33a0190 C. paradoxum (Frey & Boll, 1873) (Coriscium) 622

33a0191 C. perseae (Busck, 1920) (Gracilaria) 623

33a0192 C. populetorum (Zeller, 1839) (Gracilaria) H [NEW]
NOTE: This species is added to the NA list based on several specimens from YT, BC, MI, and QC whose DNA barcodes match those of numerous European specimens (BIN BOLD:AAC7830). These identifications were also confirmed by genitalia dissection (JFL, in litt.). Further research is required into the relationship between *C. populetorum* and *C. strictella* (see below). Despite its name, *C. populetorum* feeds on *Betula* and *Alnus* spp. (Betulaceae) rather than on *Populus* spp. (Salicaceae).
elverumensis (Strand, 1920) (Gracilaria)
nolckenella (Krulikovsky, 1901) (Gracilaria)
populetella (Doubleday, 1859) (Gracillaria)
violacea (Haworth, 1828) (Gracillaria)

33a0193 C. populiella (Chambers, 1875) (Gracilaria) 624

33a0194 C. porphyretica (Braun, 1923) (Gracilaria) 625

33a0195 C. pulchella (Chambers, 1875) (Gracilaria) 626

33a0196 C. reticulata (Braun, 1910) (Gracilaria) 628

33a0197 C. rhodorella (McDunnough, 1954) (Gracillaria) 629

33a0198 C. rhoifoliella (Chambers, 1876) (Gracilaria) 630

33a0199 C. ribesella (Chambers, 1877) (Gracilaria) ident. uncert. 631
NOTE: Adults of this CO species are unknown. The entire original description reads: "This species is known only in the larval condition. It folds the leaves of the red wild currant so that the folded leaf resembles exactly one folded by *Gelechia ribesella*" (Chambers 1877). Chambers' (1875b) description of the latter species notes: "It folds the leaf downward from each side and the tip, and lives within the fold." Clarke (1933) described adults of what he believed to be "*Gracilaria ribesella*", which he reared from webbed leaves of *Ribes bracteosum* Douglas (Grossulariaceae) in WA, but Braun (1939) stated that his moths were actually *Euhyponomeutoides gracilariella* (Yponomeutidae). Because a *Caloptilia* on *Ribes* does exist in CO (Eiseman 2022), we retain this name as valid until adults can be reared and their identity determined.

33a0200 C. sanguinella (Beutenmüller, 1888) (Gracilaria) 632
fuscoochrella (Beutenmüller, 1889) (Gracilaria)
nigristrigella (Beutenmüller, 1888) (Gracilaria)
ruptistrigella (Beutenmüller, 1888) (Gracilaria)
ruptostrigella; (Busck, 1904) (Gracilaria) missp.
shastaella; (Busck, 1904) (Gracilaria) missp.
shastella (Beutenmüller, 1888) (Gracilaria)

33a0201 C. sassafrasella (Chambers, 1876) (Gracilaria) 633

33a0202 C. sauzalitoeella (Chambers, 1876) (Gracilaria) 634
sauzalitela; (Meyrick, 1912) (Gracilaria) emend.
sauzalitoella; (Ely, 1917) (Gracilaria) missp.

33a0203 C. scutellariella (Braun, 1923) (Gracilaria) 635
NOTE: This species may be synonymous with *C. flavimaculella*, but Braun's type material has not yet been examined to confirm this. Huemer et al. (2016) reported that *C. scutellariella* is closely related to the European species *Mercantouria neli* Huemer, Lopez-Vaamonde & Triberti, 2016, and suggested that its placement in *Caloptilia* is doubtful. However, the genitalia of *C. scutellariella* are very different from those of *M. neli* and we do not believe that they are congeneric.

33a0204 C. sebastianiella (Busck, 1900) (Gracilaria) 636

33a0205 C. serotinella (Ely, 1910) (Gracilaria) 637

33a0206 C. speciosella (Braun, 1939) (Gracilaria) 638
NOTE: This species is probably synonymous with *C. bimaculatella*, but the types have not yet been examined to confirm this.

33a0207 C. stigmatella (Fabricius, 1781) (Tinea) H 639
consimilella (Frey & Boll, 1876) (Gracilaria)
cruciella (Goeze, 1783) (Phalaena)
equestris (Fourcroy, 1785) (Tinea)
ochracea (Haworth, 1828) (Gracillaria)
purpurea (Haworth, 1828) (Gracillaria)
purpuriella (Chambers, 1872) (Gracillaria)
triangulella (Panzer, 1794) (Tinea)
triangulosella (Costa, 1836) (Tinea)
upupaepennella (Hübner, [1796-1838]) (Tinea)

33a0208 C. strictella (Walker, 1864) (Gelechia) 640
NOTE: The identity of this species is uncertain. It has been suspected to be a synonym of *C. suberinella* (Landry et al. 2013), but it could also be synonymous with either *C. alnivorella* or *C. populetorum*. We have seen a photo of the type of *C. strictella*, which remains undissected. See also the note under *C. populetorum*.
adaptella (Walker, 1864) (Gelechia)

33a0209 C. suberinella (Tengström, 1848) (Gracilaria) H? [NEW]
NOTE: Landry et al. (2013) reported a specimen of this European species from BC and considered it to be possibly native (Holarctic). They suggested that it may be synonymous with *C. strictella*, but noted that the type of that species has never been studied and its identity is uncertain. Many additional specimens have since been collected from YT, NT, and QC, including a long series reared from *Betula papyrifera* (Betulaceae) from the Gaspé region of QC by Alain Charpentier.
proteella (Frey, 1884) (Gracilaria)

33a0210 C. superbifrontella (Clemens, 1860) (Gracilaria) 641

33a0211 C. triadicae Davis, 2013 (Caloptilia) I [NEW]
NOTE: Although this species is known globally only from USA, it is believed to have originated from Asia due to its similarity to a Chinese congener and its association with Chinese Tallow tree (*Triadica sebifera* (L.) Small; Euphorbiaceae) (Davis et al. 2013b).

33a0212 C. umbratella (Braun, 1927) (Gracilaria) 642

33a0213 C. vacciniella (Ely, 1915) (Gracilaria) 643

33a0214 C. violacella (Clemens, 1860) (Gracilaria) 644
desmodifoliella (Clemens, 1865) (Gracilaria)

Genus "CALOPTILIA" Hübner, 1825 PROV. PL.

33a0215 C. murtfeldtella (Busck, 1904) (Gracilaria) mispl. 614
NOTE: Kawahara et al. (2017) found *Caloptilia* to be polyphyletic, and their analysis placed this species with *Eucalybites* Kumata, 1982, *Euspilapteryx* Stephens, 1835, and *Gracillaria*. We are unable to determine the correct generic placement of *C. murtfeldtella* at this time.

Genus GRACILLARIA Haworth, 1828
GRACILARIA; Zeller, 1839 missp.
XANTHOSPILAPTERYX Spuler, 1910

33a0216 G. syringella (Fabricius, 1794) (Tinea) I 645
NOTE: Introduced from Europe; first found in NA in ON in 1923, and in WA in 1927.
anastomosis Haworth, 1828 (Gracillaria)
ardeaepennella (Treitschke, 1833) (Ornix)
heringiella (Reutti, 1898) (Gracilaria)
microdactylella ([Denis & Schiffermüller], 1775) (Tinea)

Genus NEUROLIPA Ely, 1917

33a0217 N. randiella (Busck, 1900) (Coriscium) 659

Genus POVOLNYA Kuznetzov, 1979

33a0218 P. quercinigrella (Ely, 1915) (Gracilaria) 627

Subfamily LITHOCOLLETINAE Stainton, 1854
ID INFO: Braun (1908).

Genus ANARSIOSES Davis, 2019
ID INFO: Davis (2019).

33a0219 A. aberrans (Braun, 1930) (Lithocolletis) 725

Genus CAMERARIA Chapman, 1902
ID INFO: Braun (1908); also Opler & Davis (1981), Davis & Graves (2016).

33a0220 C. aceriella (Clemens, 1859) (Lithocolletis) 803
33a0221 C. aesculisella (Chambers, 1871) (Lithocolletis) 804
33a0222 C. agrifoliella (Braun, 1908) (Lithocolletis) 806
33a0223 C. anomala Opler & Davis, 1981 (Cameraria) [NEW]
33a0224 C. arcuella (Braun, 1908) (Lithocolletis) 807
33a0225 C. arizonella (Braun, 1925) (Lithocolletis) 735
NOTE: This species was listed in *Phyllonorycter* by Davis (in Hodges et al. 1983). It was transferred to *Cameraria* by Eiseman & Davis (2020).
33a0226 C. australisella (Chambers, 1878) (Lithocolletis) 808
33a0227 C. bethunella (Chambers, 1871) (Lithocolletis) 809
lebertella (Frey & Boll, 1878) (Lithocolletis)
33a0228 C. betulivora (Walsingham, 1891) (Lithocolletis) 810
33a0229 C. caryaefoliella (Clemens, 1859) (Lithocolletis) 811
caryifoliella; (Meyrick, 1912) (Lithocolletis) emend.
juglandiella (Clemens, [1862]) (Lithocolletis)
33a0230 C. castaneaeella (Chambers, 1875) (Lithocolletis) 812
castaneella; (Meyrick, 1912) (Lithocolletis) emend.
castanella; (Walsingham, 1891) (Lithocolletis) emend.
33a0231 C. cervina (Walsingham, 1907) (Lithocolletis) 813
33a0232 C. chambersella (Walsingham, 1889) (Lithocolletis) 814
quinquenotella (Chambers, 1880) (Lithocolletis)
33a0233 C. cincinnatiella (Chambers, 1871) (Lithocolletis) 815
33a0234 C. conglomeratella (Zeller, 1876) (Lithocolletis) 816
bicolorella (Chambers, 1878) (Lithocolletis)
obtusilobae (Frey & Boll, 1878) (Lithocolletis)
33a0235 C. corylisella (Chambers, 1871) (Lithocolletis) 817
bifasciella (Walsingham, 1907) (Lithocolletis)
corylella; (Meyrick, 1912) (Lithocolletis) emend.
coryliella; (Chambers, 1879) (Lithocolletis) missp.
33a0236 C. cotinivora Davis & Graves, 2016 (Cameraria) [NEW]
33a0237 C. cretaceella (Braun, 1925) (Lithocolletis) 747
NOTE: This species was listed in *Phyllonorycter* by Davis (in Hodges et al. 1983). It was transferred to *Cameraria* by Eiseman & Davis (2020).
33a0238 C. diabloensis Opler & Davis, 1981 (Cameraria) [NEW]
33a0239 C. eppelsheimii (Frey & Boll, 1878) (Lithocolletis) 818
33a0240 C. fasciella (Walsingham, 1891) (Lithocolletis) 819
unifasciella (Chambers, 1875) (Lithocolletis)
33a0241 C. fletcherella (Braun, 1908) (Lithocolletis) 820
33a0242 C. gaultheriella (Walsingham, 1889) (Lithocolletis) 821
33a0243 C. guttifinitella (Clemens, 1859) (Lithocolletis) 822
toxicodendri (Frey & Boll, 1878) (Lithocolletis)
33a0244 C. hamadryadella (Clemens, 1859) (Lithocolletis) 823
alternata; (Chambers, 1878) (Lithocolletis) missp.
alternatella (Zeller, 1876) (Lithocolletis)
33a0245 C. hamameliella (Busck, 1903) (Lithocolletis) 824
hamamelis; (Riley, 1903) (Lithocolletis) missp.
33a0246 C. jacintoensis Opler & Davis, 1981 (Cameraria) [NEW]
33a0247 C. lentella (Braun, 1908) (Lithocolletis) 825
33a0248 C. lobatiella Opler & Davis, 1981 (Cameraria) [NEW]
33a0249 C. macrocarpae Freeman, 1970 (Cameraria) 827
33a0250 C. macrocarpella (Frey & Boll, 1878) (Lithocolletis) 828
33a0251 C. marinensis Opler & Davis, 1981 (Cameraria) [NEW]
33a0252 C. mediodorsella (Braun, 1908) (Lithocolletis) 829
33a0253 C. mendocinensis Opler & Davis, 1981 (Cameraria) [NEW]
33a0254 C. nemoris (Walsingham, 1889) (Lithocolletis) 830
NOTE: This species may be conspecific with *C. gaultheriella* (Eiseman 2021a).
33a0255 C. obstrictella (Clemens, 1859) (Lithocolletis) 831
bifasciella (Chambers, 1878) (Lithocolletis)
ceriferae (Walsingham, 1907) (Lithocolletis)
33a0256 C. ostryarella (Chambers, 1871) (Lithocolletis) 832
ostryella; (Meyrick, 1912) (Lithocolletis) emend.
33a0257 C. pentekes Opler & Davis, 1981 (Cameraria) [NEW]
33a0258 C. picturatella (Braun, 1916) (Lithocolletis) 833
33a0259 C. platanoidiella (Braun, 1908) (Lithocolletis) 834
33a0260 C. quercivorella (Chambers, 1879) (Lithocolletis) 835
33a0261 C. saccharella (Braun, 1908) (Lithocolletis) 836
33a0262 C. sadlerianella Opler & Davis, 1981 (Cameraria) [NEW]
33a0263 C. sempervirensella Opler & Davis, 1981 (Cameraria) [NEW]
33a0264 C. serpentinensis Opler & Davis, 1981 (Cameraria) [NEW]
33a0265 C. shenaniganensis Opler & Davis, 1981 (Cameraria) [NEW]
33a0266 C. superimposita (Braun, 1925) (Lithocolletis) 837
33a0267 C. temblorensis Opler & Davis, 1981 (Cameraria) [NEW]
33a0268 C. tildeni Opler & Davis, 1981 (Cameraria) [NEW]
teldeni; [various, no date] (Cameraria) missp.
NOTE: This misspelling has appeared on a number of internet sites but we are unaware of any appearances in published literature.
33a0269 C. tubiferella (Clemens, 1860) (Lithocolletis) 838
33a0270 C. ulmella (Chambers, 1871) (Lithocolletis) 839
modesta (Frey & Boll, 1876) (Lithocolletis)
33a0271 C. umbellulariae (Walsingham, 1889) (Lithocolletis) 840
33a0272 C. walsinghami Opler & Davis, 1981 (Cameraria) [NEW]
33a0273 C. wislizeniella Opler, 1971 (Cameraria) [NEW]
wizlizeniella; Davis, 1983 (Cameraria) missp. *[841]*

Genus CHRYSASTER Kumata, 1961

33a0274 C. ostensackenella (Fitch, 1859) (Argyromiges) 842
ornatella (Chambers, 1871) (Lithocolletis)

Genus CREMASTOBOMBYCIA Braun, 1908
ID INFO (partial): Davis et al. (2013a).

33a0275 C. ambrosiaeella (Chambers, 1871) (Lithocolletis) [NEW]
ambrosiella; Dyar, 1903 (Cremastobombycia) missp. *[720]*
amoena (Frey & Boll, 1878) (Lithocolletis)
nobilissima (Frey & Boll, 1878) (Lithocolletis)
33a0276 C. chromolaenae Davis, 2013 (Cremastobombycia) [NEW]
33a0277 C. grindeliella (Walsingham, 1891) (Lithocolletis) 721
33a0278 C. ignota (Frey & Boll, 1873) (Lithocolletis) 722
actinomeridis (Frey & Boll, 1878) (Lithocolletis)
bostonica (Frey & Boll, 1873) (Lithocolletis)
elephantopodella (Frey & Boll, 1878) (Lithocolletis)
helianthisella (Chambers, 1874) (Lithocolletis)
helianthivorella (Chambers, 1875) (Lithocolletis)
33a0279 C. lantanella Busck, 1910 (Cremastobombycia) [NEW]
NOTE: This species, first described as a Mexican species that had been introduced into Hawaii, was reported from TX by Palmer & Pullen (1995).
33a0280 C. solidaginis (Frey & Boll, 1876) (Lithocolletis) 723
solidaginisella (Chambers, 1880) (Lithocolletis)
33a0281 C. verbesinella (Busck, 1900) (Lithocolletis) 724

Genus LEUCANTHIZA Clemens, 1859
NOTE: Moved to Lithocolletinae as sister group to *Chrysaster*, following De Prins et al. (2013).

33a0282 L. amphicarpeaefoliella Clemens, 1859 (Leucanthiza) 700
saundersella Chambers, 1871 (Leucanthiza)
33a0283 L. dircella Braun, 1914 (Leucanthiza) 701

Genus MACROSACCUS Davis & de Prins, 2011
ID INFO: Davis & De Prins (2011); also Eiseman & Davis (2017).

33a0284 M. coursetiae Eiseman & Davis, 2017 (Macrosaccus) [NEW]
33a0285 M. morrisella (Fitch, 1859) (Argyromiges) 773

amphicarpeaella (Chambers, 1877) (Lithocolletis)
texanella (Zeller, 1876) (Lithocolletis)

33a0286 M. neomexicanus Davis, 2011 (Macrosaccus) [NEW]

33a0287 M. robiniella (Clemens, 1859) (Lithocolletis) 790
NOTE: Nearctic; introduced to Europe in about 1980 (Kirichenko et al. 2018).
pseudacaciella (Fitch, 1859) (Argyromiges)

33a0288 M. uhlerella (Fitch, 1859) (Argyromiges) 801
amorphae (Frey & Boll, 1878) (Lithocolletis)
amorphaeella (Chambers, 1877) (Lithocolletis)

Genus PHYLLONORYCTER Hübner, 1822
ID INFO: Braun (1908); also Landry & Wagner (1995), Davis & Deschka (2001).
EUCESTIS Hübner, 1825
HIRSUTA Fletcher, 1929
LITHOCOLETES; Dyar, 1903 missp.
LITHOCOLLETIS Hübner, 1825
NOTE: Virtually all Nearctic Lithocolletinae were formerly included in *Lithocolletis*. Therefore references to undetermined *Lithocolletis* species in the literature should not be (though they sometimes have been) interpreted as representing *Phyllonorycter*.
PHYLLORYCTER; Walsingham, 1914 missp.

33a0289 P. aeriferella (Clemens, 1859) (Lithocolletis) 726

33a0290 P. alaskana Deschka, 1982 (Phyllonorycter) [NEW]

33a0291 P. albanotella (Chambers, 1875) (Lithocolletis) 727
albinotella; (Meyrick, 1912) (Lithocolletis) emend.
subaureola (Frey & Boll, 1878) (Lithocolletis)

33a0292 P. alni (Walsingham, 1891) (Lithocolletis) 728
alnivorella (Chambers, 1875) (Lithocolletis)

33a0293 P. alnicolella (Walsingham, 1889) (Lithocolletis) 729

33a0294 P. anderidae (Fletcher, 1875) (Lithocolletis) H/I [NEW]
NOTE: This European birch leaf miner was listed in the supplementary material of Hebert et al. (2016) based on specimens from YT, NT, AB, MB, and NL (Labrador). The identification was made via DNA barcoding and to our knowledge has not been confirmed by morphological analysis.
nanella (Petersen, 1927) (Lithocolletis)

33a0295 P. antiochella (Opler, 1971) (Lithocolletis) 730

33a0296 P. apicinigrella (Braun, 1908) (Lithocolletis) 731

33a0297 P. apparella (Herrich-Schäffer, 1855) (Lithocolletis) H [NEW]
atomariella (Zeller, 1876) (Lithocolletis) *[736]*
ontario (Freeman, 1970) (Lithocolletis) *[779]*
salicifoliella of authors; (not Chambers, 1871) (Lithocolletis) misid.
tremuloidiella (Braun, 1908) (Lithocolletis) *[798]*

33a0298 P. arbutusella (Braun, 1908) (Lithocolletis) 732
arbutella; (Meyrick, 1912) (Lithocolletis) emend.

33a0299 P. argentifimbriella (Clemens, 1859) (Lithocolletis) 733
fuscocostella (Chambers, 1875) (Lithocolletis)
longestriata (Frey & Boll, 1873) (Lithocolletis)
longirostrata; (Dyar, 1903) (Lithocolletis) missp.
longistriata; (Ely, 1918) (Lithocolletis) missp.

33a0300 P. argentinotella (Clemens, 1859) (Lithocolletis) 734

33a0301 P. auronitens (Frey & Boll, 1873) (Lithocolletis) 737

33a0302 P. basistrigella (Clemens, 1859) (Lithocolletis) 738
intermedia (Frey & Boll, 1873) (Lithocolletis)

33a0303 P. bataviella (Braun, 1908) (Lithocolletis) 739

33a0304 P. blancardella (Fabricius, 1781) (Tinea) I 740
NOTE: Introduced from Europe decades ago (Landry & Wagner 1995; Kirichenko et al. 2018).
concomitella (Bankes, 1899) (Lithocolletis)
pyrariella (Tutt, 1898) (Lithocolletis)

33a0305 P. caryaealbella (Chambers, 1871) (Lithocolletis) 741
caryalbella; (Walsingham, 1891) (Lithocolletis) missp.

33a0306 P. celtifoliella (Chambers, 1871) (Lithocolletis) 742

33a0307 P. celtisella (Chambers, 1871) (Lithocolletis) 743
celtiella; (Meyrick, 1912) (Lithocolletis) emend.
nonfasciella (Chambers, 1871) (Lithocolletis)
pusillifoliella (Frey & Boll, 1876) (Lithocolletis)

33a0308 P. clemensella (Chambers, 1871) (Lithocolletis) 744

33a0309 P. comptoniella (Darlington, 1949) (Lithocolletis) 745

33a0310 P. crataegella (Clemens, 1859) (Lithocolletis) 746
malifoliella; (Meyrick, 1912) (Lithocolletis) emend.
malimalifoliella (Braun, 1908) (Lithocolletis) *[767]*

33a0311 P. deceptusella (Chambers, 1879) (Lithocolletis)
ident. uncert. 748
NOTE: Landry & Wagner (1995) treated this name as a nomen dubium, noting that the abdomen of the holotype (a caught adult with no host association) is missing and that the wing pattern suggests affinity to eastern cherry-feeding (*Prunus* spp.; Rosaceae) species. We have opted to retain it as a valid name until the wing patterns of all described species can be carefully compared.

33a0312 P. deserticola Davis & Deschka, 2001 (Phyllonorycter) [NEW]

33a0313 P. diaphanella (Frey & Boll, 1878) (Lithocolletis) 749

33a0314 P. diversella (Braun, 1916) (Lithocolletis) 750

33a0315 P. elmaella Doğanlar & Mutuura, 1980 (Phyllonorycter) [NEW]
sorbi of authors; (not Frey, 1855) (Lithocolletis) misappl.

33a0316 P. emberizaepenella (Bouché, 1834) (Ornix) H/I 750.1
emberizipennella; (Meyrick, 1912) (Lithocolletis) emend.
pezzolella (Herrich-Schäffer, 1855) (Lithocolletis)

33a0317 P. erugatus Davis & Deschka, 2001 (Phyllonorycter) [NEW]

33a0318 P. fitchella (Clemens, 1860) (Lithocolletis) 752
quercetorum (Frey & Boll, 1873) (Lithocolletis)
quercifoliella (Fitch, 1859) (Lithocolletis)
quercitorum; (Chambers, 1875) (Lithocolletis) missp.

33a0319 P. fragilella (Frey & Boll, 1878) (Lithocolletis) 753
trifasciella (Frey & Boll, 1873) (Lithocolletis)

33a0320 P. gemmea (Frey & Boll, 1873) (Lithocolletis) 754

33a0321 P. hagenii (Frey & Boll, 1873) (Lithocolletis) 755
hageni; (Chambers, 1879) (Lithocolletis) missp.
necopinusella (Chambers, 1878) (Lithocolletis)

33a0322 P. holodisci (Braun, 1939) (Lithocolletis) 756

33a0323 P. incanella (Walsingham, 1889) (Lithocolletis) 757

33a0324 P. insignis (Walsingham, 1889) (Lithocolletis) 758

33a0325 P. intermixta (Braun, 1930) (Lithocolletis) 759

33a0326 P. inusitatella (Braun, 1925) (Lithocolletis) 760

33a0327 P. junoniella (Zeller, 1846) (Lithocolletis) H/I [NEW]
NOTE: This European leaf miner of Lingonberry (*Vaccinium vitis-idaea* L.; Ericaceae) was listed in the supplementary material of Hebert et al. (2016) based on specimens from YT, AB, QC, NB, and NL. The identification was made via DNA barcoding (BOLD also has matching DNA barcodes from NT and BC) and to our knowledge has not been confirmed by morphological analysis.
vacciniella (Stainton, 1855) (Lithocolletis)

33a0328 P. kearfottella (Braun, 1908) (Lithocolletis) 761

33a0329 P. latus Davis & Deschka, 2001 (Phyllonorycter) [NEW]

33a0330 P. ledella (Walsingham, 1889) (Lithocolletis) 763

33a0331 P. leucothorax (Walsingham, 1907) (Lithocolletis) 826
NOTE: This species was listed in *Cameraria* by Davis (in Hodges et al. 1983). The combination *Phyllonorycter leucothorax* first appeared in Gates et al. (2002) and was affirmed by Eiseman & Davis (2020).

33a0332 P. lucetiella (Clemens, 1859) (Lithocolletis) 764
aenigmatella (Frey & Boll, 1873) (Lithocolletis)

33a0333 P. lucidicostella (Clemens, 1859) (Lithocolletis) 765
ludicostella; (Riley, 1891) (Lithocolletis) missp.

33a0334 P. maestingella (Müller, 1764) (Phalaena) H/I [NEW]
NOTE: A specimen of this European species was found in BC in 2006 (Landry et al. 2013). As noted by Eiseman (2022), DNA barcoding of larvae collected by CSE in VT and MA showed a 100% match with European material of this species.
fagifoliella (Sircom, 1849) (Lithocolletis)
faginella (Zeller, 1846) (Lithocolletis)
hedemanni (Caradja, 1920) (Lithocolletis)
phegophagella (Herrich-Schäffer, 1855) (Lithocolletis)
restrictella (Braun, 1939) (Lithocolletis) N. SYN. *[786]*
NOTE: New synonymy, based on comparison of the genitalia of a male paratype of *P. restrictella* at the USNM with the illustration of *P. maestingella* in Landry et al. (2013).
securiferella (Stainton, 1848) (Lithocolletis)
triguttella (Stainton, 1848) (Lithocolletis)

33a0335 P. manzanita (Braun, 1925) (Lithocolletis) 768

33a0336 P. mariaeella (Chambers, 1875) (Lithocolletis) 769
affinis (Frey & Boll, 1876) (Lithocolletis) *[805]*
NOTE: This species was synonymized with *P. mariaeella* by Eiseman & Davis (2020). It was listed in *Cameraria* by Davis (in Hodges et al. 1983). The combination *Phyllonorycter affinis* was first used by Maier & Davis (1989).
mariaella Maier & Davis, 1989 (Phyllonorycter)
mariella; (Riley, 1891) (Lithocolletis) missp.

33a0337 P. martiella (Braun, 1908) (Lithocolletis) 770

33a0338 P. memorabilis (Braun, 1939) (Lithocolletis) 771

33a0339 P. mespilella (Hübner, [1805]) (Tinea) I [NEW]
NOTE: The presence of this European species in western NA was reported by Pottinger & LeRoux (1971) but it was omitted by Davis (in Hodges et al. 1983). Landry & Wagner (1995) confirmed the identification and provided additional records.
aureopallidella (Bruand, 1858) (Argyresthia)
decimella (Stainton, 1851) (Elachista)
pomifoliella (Zeller, 1839) (Lithocolletis)
pyrivorella (Bankes, 1899) (Lithocolletis)
torminella (Frey, 1856) (Lithocolletis)

33a0340 P. mildredae Davis & Deschka, 2001 (Phyllonorycter) [NEW]
33a0341 P. minutella (Frey & Boll, 1878) (Lithocolletis) 772
33a0342 P. nipigon (Freeman, 1970) (Lithocolletis) 774
33a0343 P. obscuricostella (Clemens, 1859) (Lithocolletis) 775
virginella; (Dyar, 1903) (Lithocolletis) missp.
virginiella (Chambers, 1871) (Lithocolletis)
33a0344 P. obsoleta (Frey & Boll, 1873) (Lithocolletis) 776
obsoletella (Chambers, 1878) (Lithocolletis)
33a0345 P. occitanica (Frey & Boll, 1876) (Lithocolletis) 777
33a0346 P. olivaeformis (Braun, 1908) (Lithocolletis) 778
oliviformis; (Meyrick, 1912) (Lithocolletis) emend.
33a0347 P. oregonensis (Walsingham, 1889) (Lithocolletis) 780
33a0348 P. ostryaefoliella (Clemens, 1859) (Lithocolletis) 781
mirifica (Frey & Boll, 1873) (Lithocolletis)
ostryifoliella; (Meyrick, 1912) (Lithocolletis) emend.
33a0349 P. pernivalis (Braun, 1925) (Lithocolletis) 782
33a0350 P. platani (Staudinger, 1870) (Lithocolletis) I [NEW]
NOTE: This European species was listed as *P. felinelle* by Davis (in Hodges et al. 1983). Deschka (1995) introduced the synonymy with the European *P. platani*, and as noted by Eiseman (2022), DNA barcoding showed a 100% match between specimens reared by CSE in CA and one collected in Greece.
felinella; Heinrich, 1920 (Phyllonorycter) missp.
felinelle Heinrich, 1920 (Phyllonorycter) *[751]*
33a0351 P. populiella (Chambers, 1878) (Lithocolletis) 783
33a0352 P. propinquinella (Braun, 1908) (Lithocolletis) 784
33a0353 P. quercialbella (Fitch, 1859) (Argyromiges) 785
quercibella (Chambers, 1875) (Lithocolletis)
quercipulchrella (Chambers, 1878) (Lithocolletis)
33a0354 P. rhododendrella (Braun, 1935) (Lithocolletis) 787
33a0355 P. ribefoliae (Braun, 1939) (Lithocolletis) 788
33a0356 P. rileyella (Chambers, 1875) (Lithocolletis) 789
tenuistrigata (Frey & Boll, 1876) (Lithocolletis)
33a0357 P. salicifoliella (Chambers, 1875) (Lithocolletis) 791
kenora (Freeman, 1970) (Lithocolletis) *[762]*
salicifoliella (Clemens, [1862]) (Lithocolletis) nom. nud.
33a0358 P. sandraella (Opler, 1971) (Lithocolletis) 793
33a0359 P. scudderella (Frey & Boll, 1873) (Lithocolletis) 794
salicivorella (Braun, 1908) (Lithocolletis) *[792]*
33a0360 P. sexnotella (Chambers, 1880) (Lithocolletis) 795
33a0361 P. symphoricarpaeella (Chambers, 1875) (Lithocolletis) 796
bolliella (Dyar, 1903) (Lithocolletis)
symphoricarpella (Frey & Boll, 1878) (Lithocolletis)
symphoricarpella; (Walsingham, 1890) (Lithocolletis) missp.
33a0362 P. tiliacella (Chambers, 1871) (Lithocolletis) 797
tiliaeella; (Chambers, 1871) (Lithocolletis) missp.
tilieacella; (Dyar, 1903) (Lithocolletis) missp.
tiliella; (Walsingham, 1891) (Lithocolletis) missp.
33a0363 P. trinotella (Braun, 1908) (Lithocolletis) 799
33a0364 P. tritaenianella (Chambers, 1871) (Lithocolletis) 800
consimilella (Frey & Boll, 1873) (Lithocolletis)
tritaeniaella; (Chambers, 1879) (Lithocolletis) missp.
tritaeniella; (Dyar, 1903) (Lithocolletis) missp.
tritenoeanella; (Chambers, 1873) (Lithocolletis) missp.
33a0365 P. viburnella (Braun, 1923) (Lithocolletis) 802

Genus PORPHYROSELA Braun, 1908
ID INFO: Eiseman et al. (2017b).

33a0366 P. desmodiella (Clemens, 1859) (Lithocolletis) 843
gregariella (Murtfeldt, 1881) (Lithocolletis)
33a0367 P. minuta Clarke, 1953 (Porphyrosela) I [NEW]
NOTE: This leaf miner of White Clover (*Trifolium repens* L.; Fabaceae), first described from Argentina, has now been found in several states across the USA, with photographic evidence dating back to 2008 (LA, OK), and with an unvouchered observation in NC from 2002 or perhaps earlier (Eiseman et al. 2017b).

Genus PROTOLITHOCOLLETIS Braun, 1929
ID INFO: Braun (1929).

33a0368 P. lathyri Braun, 1929 (Protolithocolletis) 719

Genus "LITHOCOLLETIS" Hübner, 1825 PROV. PL.
NOTE: This genus name is a synonym of *Phyllonorycter*, but is used here for provisional listing of an unplaced species.

33a0369e L. lysimachiaeella Chambers, 1875 (Lithocolletis) EXCL.; nom. dub. 766
NOTE: The original description (Chambers 1875c) states only that the "larva is cylindrical and very small" and "makes a very small tentiform mine on the under side of the leaves of (*Lysimachia lanceolata*) the loosestrife. I have not succeeded in rearing it." This species was listed in *Phyllonorycter* by Davis (in Hodges et al. 1983) based on the synonymy of *Lithocolletis* with that genus, but the adult remains unknown and no one since Chambers has reported finding gracillariid mines on *L. lanceolata* Walter (Primulaceae) or any other NA Primulaceae. Eiseman & Davis (2020) discussed the possibility that Chambers may have mistaken the feeding damage of a tortricid larva for the tentiform mine of a lithocolletine.

Subfamily PHYLLOCNISTINAE Herrich-Schäffer, 1857

Genus PHYLLOCNISTIS Zeller, 1848
ID INFO (partial): Davis & Wagner (2011).
PHYLLOCNITIS; Busck, 1900 missp.
PHYLLOETIS; Chambers, 1875 missp.

33a0370 P. ampelopsiella Chambers, 1871 (Phyllocnistis) 844
33a0371 P. citrella Stainton, 1856 (Phyllocnistis) I [NEW]
NOTE: This Asian citrus leaf miner was documented in FL by Heppner (1993) and is now established across the southern USA (Eiseman 2022).
citricola (Shiraki, 1913) (Lithocolletis)
minutella Snellen, 1904 (Phyllocnistis)
33a0372 P. finitima Braun, 1927 (Phyllocnistis) 845
33a0373 P. hyperpersea Davis & Wagner, 2011 (Phyllocnistis) [NEW]
33a0374 P. insignis Frey & Boll, 1876 (Phyllocnistis) 846
erechtiisella McDunnough, 1939 (Phyllocnistis)
erechtitisella Chambers, 1878 (Phyllocnistis)
33a0375 P. intermediella Busck, 1900 (Phyllocnistis) 847
33a0376 P. liquidambarisella Chambers, 1875 (Phyllocnistis) 848
33a0377 P. liriodendronella Clemens, 1863 (Phyllocnistis) 849
liriodendrella; Dyar, 1903 (Phyllocnistis) missp.
magnoliaeella Chambers, 1880 (Phyllocnistis) nom. nud.
magnoliaella Busck, 1900 (Phyllocnistis) nom. nud.
magnoliella Dyar, 1903 (Phyllocnistis) nom. nud.
magnoliella Forbes, 1923 (Phyllocnistis) N. SYN. *[851]*
NOTE: When Chambers (1880a) first introduced the name *magnoliaeella* he stated that this "species is known only in the larval and pupal states, and is probably identical with *liriodendronella*." The species was not actually described in that publication — although he clearly was referring to the maker of the leaf mines on *Magnolia* (Magnoliaceae) he had discussed previously (Chambers 1871) — and thus it was listed as a nomen nudum by Davis (in Hodges et al. 1983), along with subsequent misspellings. The spelling "*magnoliella*" was first used by Dyar (1903), and later by Forbes (1923), who distinguished the adults of "*P. liriodendrella* Clemens" and "*P. magnoliella* Chambers" based on minor differences in wing pattern. Because this was the first description ever to accompany the name, *magnoliella* Forbes was listed as a valid species by Davis (in Hodges et al. 1983). No type specimen was designated since Forbes' intent was not to describe a new species. We agree with Darlington (1945) that *Phyllocnistis* adults reared from *Magnolia* and *Liriodendron* are indistinguishable, and *magnoliella* is hereby synonymized with *P. liriodendronella* (n. syn.). The synonymy is supported by the fact that CSE saw no sign of either "species" in his yard in MA for five years and then in 2019 mines appeared on both hosts simultaneously.
33a0378 P. longipalpa Davis & Wagner, 2011 (Phyllocnistis) [NEW]
33a0379 P. meliacella Becker, 1974 (Phyllocnistis) [NEW]
NOTE: This species, first described from Costa Rica, has since been found in FL (Heppner 2003).
33a0380 P. populiella Chambers, 1875 (Phyllocnistis) 852
33a0381 P. subpersea Davis & Wagner, 2011 (Phyllocnistis) [NEW]
33a0382 P. vitegenella Clemens, 1859 (Phyllocnistis) 853
33a0383 P. vitifoliella Chambers, 1871 (Phyllocnistis) 854
NOTE: We have not found consistent differences between adults of this species and *P. vitegenella*, and it was based on this presumed synonymy that the introduced European population (established around 1990 according to Kirichenko et al. (2018)) was identified as *P. vitegenella* (this being the older name). However, the leaf mines of the two are easily distinguished (Eiseman 2022), and in CSE's experience, mines on grape (*Vitis* spp.; Vitaceae) are always unambiguously one or the other. After reviewing European literature and websites concerning "*P. vitegenella*" and consulting with EJvN and Willem Ellis, it appears that only mines of the "*vitifoliella*" type have been found in Europe — strong evidence that the two species are in fact distinct.

Subfamily MARMARINAE Kawahara & Ohshima, 2016

Genus MARMARA Clemens, 1863

ID INFO (partial): Fitzgerald (1973), Guillén & Davis (2001), Davis et al. (2011), Eiseman et al. (2017a).

AESYLE Chambers, 1875

33a0384 M. apocynella Braun, 1915 (Marmara) 702
33a0385 M. arbutiella Busck, [1904] (Marmara) 703
33a0386 M. auratella Braun, 1915 (Marmara) 704
33a0387 M. basidendroca Fitzgerald, 1973 (Marmara) 705
33a0388 M. corticola Fitzgerald, 1973 (Marmara) 706
33a0389 M. elotella (Busck, 1909) (Gracilaria) 707
33a0390 M. fasciella (Chambers, 1875) (Aesyle) 708
quinquenotella (Chambers, 1877) (Gracilaria)
33a0391 M. fraxinicola Braun, 1922 (Marmara) 709
33a0392 M. fulgidella (Clemens, 1860) (Gracilaria) 710
33a0393 M. guilandinella Busck, 1900 (Marmara) 711
33a0394 M. gulosa Guillén & Davis, 2001 (Marmara) [NEW]
33a0395 M. habecki Davis, 2011 (Marmara) [NEW]
33a0396 M. opuntiella Busck, 1907 (Marmara) 713
33a0397 M. oregonensis Fitzgerald, 1975 (Marmara) 714
33a0398 M. pomonella Busck, 1915 (Marmara) 715
33a0399 M. salictella Clemens, 1863 (Marmara) 716
33a0400 M. serotinella Busck, 1915 (Marmara) 717
33a0401 M. smilacisella (Chambers, 1875) (Phyllocnistis) 718
similiacisella; (Dyar, 1903) (Phyllocnistis) missp.
smilaciella; [Meyrick], 1912 (Marmara) missp.
33a0402 M. viburnella Eiseman & Davis, 2017 (Marmara) [NEW]
tiliella Pohl & Landry, 2018 (Marmara) nom. nud.
NOTE: This combination appeared erroneously in Pohl & Landry (in Pohl et al. 2018) due to a copy-and-paste error by the senior author (contributed by GRP).

Subfamily OECOPHYLLEMBIINAE Réal & Balachowsky, 1966

Genus METRIOCHROA Busck, 1900

OECOPHYLLEMBIUS Silvestri, 1908

33a0403 M. psychotriella Busck, 1900 (Metriochroa) 699
psychotriatella; Dyar, 1903 (Metriochroa) missp.

Subfamily ACROCERCOPINAE Kawahara & Ohshima, 2016

Genus ACROCERCOPS Wallengren, 1881

33a0404 A. albinatella (Chambers, 1872) (Gracillaria) 689
albinotella; Meyrick, 1912 (Acrocercops) emend.
33a0405 A. rhombiferellum (Frey & Boll, 1876) (Coriscium) [NEW]
rhombiderella; Davis, 1983 (Acrocercops) missp. [695]

Genus "ACROCERCOPS" Wallengren, 1881 PROV. PL.

33a0406 A. albomarginatum (Walsingham, 1897) (Coriscium) mispl. [NEW]
NOTE: This species, originally described from Saint Thomas in the Virgin Islands, is included in this list based on specimens in the USNM collected at Devil's Den, AR. We believe that it is misplaced in *Acrocercops* and belongs to an as yet undescribed genus.

33a0407 A. arbutella Braun, 1925 (Acrocercops) mispl. 690
NOTE: This species is misplaced in *Acrocercops* but its correct placement has not been determined.
33a0408 A. astericola (Frey & Boll, 1873) (Gracilaria) mispl. 692
NOTE: This species is congeneric with *A. arbutella* (i.e., it is misplaced in *Acrocercops*).
33a0409 A. pnosmodiella (Busck, 1902) (Gracilaria) mispl. 693
NOTE: This species is similar to *Dialectica* species, but its correct generic placement requires further study.
onosmodiella; (Cockerell, 1905) (Gracilaria) emend.

Genus CHILOCAMPYLA Busck, 1900

33a0410 C. dyariella Busck, 1900 (Chilocampyla) 687

Genus CRYPTOLECTICA Vári, 1961

NOTE: The species *affinis*, *insulariella*, and *strigosa*, all formerly placed in *Acrocercops*, are here transferred to *Cryptolectica* (n. comb.), based on wing venation and morphology of the male genitalia.

33a0411 C. affinis (Braun, 1918) (Acrocercops) N. COMB. 688
33a0412 C. insulariella (Opler, 1971) (Acrocercops) N. COMB. 691
33a0413 C. strigosa (Braun, 1914) (Acrocercops) N. COMB. 697

Genus DIALECTICA Walsingham, 1897

DIDACTICA; Tutt, 1900 missp.
EUTRICHOCNEMIS Spuler, 1910

33a0414 D. cordiella (Busck, 1934) (Acrocercops) N. COMB. [NEW]
NOTE: Based on close morphological similarities of the male genitalia, particularly the two rows of spines on the male valvae, *Acrocercops cordiella* is transferred to the genus *Dialectica* (n. comb.). Eiseman (2022) reported rearing what appeared to be this species, previously reported only from Cuba, from leaf mines on *Cordia sulcata* DC. (Boraginaceae) collected in Homestead, FL. Although CSE's specimens have not yet been dissected, DRD has reared a large series of *D. cordiella* from TX from the leaves of *Ehretia anacua* (Terán & Berland.) I.M. Johnst. (Boraginaceae). The TX specimens agree in wing pattern and genitalia with those reared by Busck from "*Cordia alba*" in Cuba.

Genus EUCOSMOPHORA Walsingham, 1897

ID INFO: Davis & Wagner (2005).

33a0415 E. manilkarae Davis & Wagner, 2005 (Eucosmophora) [NEW]
33a0416 E. pithecellobiae Davis & Wagner, 2005 (Eucosmophora) [NEW]
33a0417 E. sideroxylonella Busck, 1900 (Eucosmophora) 696
sideroxylella; (Meyrick, 1912) (Acrocercops) emend.

Genus GIBBOVALVA Kumata & Kuroko, 1988

33a0418 G. leptodesma (Meyrick, 1928) (Marmara) N. COMB. 712
NOTE: Here transferred from *Marmara* to *Gibbovalva* (n. comb.). DRD has dissected a male syntype, and the genitalia are very similar to those of the *Gibbovalva* species illustrated by Kumata & Kuroko (1988).

Genus LEUCOSPILAPTERYX Spuler, 1910

33a0419 L. venustella (Clemens, 1860) (Gracilaria) 698
eupatoriella (Chambers, 1872) (Gracillaria)

Genus TELAMOPTILIA Kumata & Kuroko, 1988

ID INFO: Davis & Davis (2017).

33a0420 T. hibiscivora Davis & Davis, 2017 (Telamoptilia) [NEW]

Superfamily YPONOMEUTOIDEA Stephens, 1829

20. Family BEDELLIIDAE Meyrick, 1880

by Jae-Cheon Sohn

Bedelliids are very small grayish moths, with narrow wings and wingspans of less than 20 mm. This family had been confused with Lyonetiidae but differs from the latter in the lack of a true eye cap. Kyrki (1984) and Common (1990) defined the Bedelliidae based on forewing venation and larval characteristics. The larvae mine the foliage of several plant families such as Poaceae, Liliaceae, Urticaceae, and Convolvulaceae. Early larval instars produce a narrow linear mine and later instars create blotch mines and feed as eroders. Larvae in this family eject frass from their mines. The nearly cosmopolitan species *B. somnulentella* is regarded as an occasional pest on sweet potatoes.

The monobasic Bedellidae comprise 18 described species, present in all regions except the Neotropical. There are only two species of *Bedellia* occurring in the Nearctic region. The family has not been revised recently.

Genus BEDELLIA Stainton, 1849

36a0001	B. minor Busck, 1900 (Bedellia)		465
36a0002	B. somnulentella (Zeller, 1847) (Lyonetia)	H/I	466
	convolvulella (Fologne, 1860) (Gracilaria)		
	ipomoeae Bradley, 1953 (Bedellia)		
	mnesileuca Meyrick, 1928 (Bedellia)		
	orpheella Stainton, 1849 (Bedellia)		
	staintoniella Clemens, 1860 (Bedellia)		

21. Family HELIODINIDAE Heinemann & Wocke, [1876] 1877 (sun moths)

by Jae-Cheon Sohn

Heliodinids are very small moths (wingspans 8 to 15 mm), often with metallic markings on the forewings. Kyrki (1984) proposed two autapomorphies for the family: the entirely smooth head vestiture and the vestigial CuP vein on the forewing. The adult moths are usually diurnal. The larvae are leaf miners; borers in stems, buds, and fruits; or (rarely) external feeders in a communal web. The larval host plants include Chenopodiaceae, Nyctaginaceae, Araliaceae, Onagraceae, and Aizoaceae.

The family Heliodinidae contains about 70 species worldwide. Hsu & Powell (2004) revised the Nearctic heliodinids comprising 31 species.

Genus LAMPROLOPHUS Busck, 1900

36a0003 L. lithella Busck, [1901] 1900 (Lamprolophus) 2495

Genus LITHARIAPTERYX Chambers, 1876

36a0004 L. abroniaeella Chambers, 1876 (Lithariapteryx) 2510
abroniella; Meyrick, 1913 (Lithariapteryx) emend.
36a0005 L. mirabilinella Comstock, 1940 (Lithariapteryx) 2512
36a0006 L. jubarella Comstock, 1940 (Lithariapteryx) 2511
36a0007 L. elegans Powell, 1991 (Lithariapteryx) [NEW]

Genus NEOHELIODINES Hsu, 2005

36a0008 N. nyctaginella (Gibson, 1914) (Heliodines) 2502
36a0009 N. cliffordi (Harrison & Passoa, 1995) (Heliodines) [NEW]
36a0010 N. albidentus Hsu, 2005 (Neoheliodines) [NEW]
36a0011 N. arizonense Hsu, 2005 (Neoheliodines) [NEW]
36a0012 N. eurypterus Hsu, 2005 (Neoheliodines) [NEW]
36a0013 N. hodgesi Hsu, 2005 (Neoheliodines) [NEW]
36a0014 N. melanobasilarus Hsu, 2005 (Neoheliodines) [NEW]
36a0015 N. vernius Hsu, 2005 (Neoheliodines) [NEW]

Genus EMBOLA Walsingham, 1909
CREMBALASTIS Meyrick, 1915

36a0016 E. albaciliella (Busck, 1910) (Heliodines) 2496
36a0017 E. autumnalis Hsu, 2005 (Embola) [NEW]
36a0018 E. ciccella (Barnes & Busck, 1920) (Heliodines) 2498
36a0019 E. cyanozostera Hsu, 2005 (Embola) [NEW]
36a0020 E. ionis (Clarke, 1952) (Heliodines) 2500
36a0021 E. powelli Hsu, 2002 (Embola) [NEW]
36a0022 E. sexpunctella (Walsingham, 1892) (Heliodines) 2504

Genus EUHELIODINES Hsu, 2005

36a0023 E. chemsaki Hsu, 2005 (Euheliodines) [NEW]

Genus AETOLE Chambers, 1875

36a0024 A. bella Chambers, 1875 (Aetole) 2497
36a0025 A. prenticei Hsu, 2005 (Aetole) [NEW]
36a0026 A. schulzella (Fabricius, 1794) (Tinea) [NEW]
36a0027 A. cera Hsu, 2005 (Aetole) [NEW]
36a0028 A. favonia Hsu, 2005 (Aetole) [NEW]
36a0029 A. aprica Hsu, 2005 (Aetole) [NEW]
36a0030 A. tripunctella (Walsingham, 1892) (Heliodines) 2505
perichalca (Meyrick, 1912) (Heliodines) *[2503]*
36a0031 A. unipunctella (Walsingham, 1892) (Heliodines) 2506
metallicella (Busck, 1909) (Heliodines) *[2501]*
36a0032 A. extraneella (Walsingham, 1881) (Heliodines) 2499

Genus SCELORTHUS Busck, 1900

36a0033 S. pisoniella Busck, [1901] 1900 (Scelorthus) 2494

22. Family ATTEVIDAE Mosher, 1916

by Jae-Cheon Sohn

Attevids are small moths, with wingspans of about 20 mm. The adult moths exhibit colorful wings, possibly linked with aposematism. The larvae live and feed in loose communal webs among the leaves and small branches of their host plants. This group has been associated with Yponomeutidae based on wing shapes and larval sociality, but it was elevated to family level by van Nieukerken et al. (2011), and that status was supported by a recent molecular phylogeny (Sohn et al. 2013).

Attevids include about 50 recognized species worldwide, predominantly in the tropics. Two species are known in the Nearctic region. The common *Atteva aurea* exhibits several distinct variations in forewing pattern. These variants were historically treated as separate species but were recently synonymized based on molecular evidence (Wilson et al. 2010). A world catalog is included in Lewis & Sohn (2015).

Genus ATTEVA Walker, 1854

AMBLOTHRIDIA Wallengren, 1861
CARTHARA Walker, 1866
CORINEA Walker, 1863
OETA Grote, 1865
POECILOPTERA Clemens, 1861
SCINTILLA Guenée, 1879
SYBLIS Guenée, 1879
SYNADIA Walker, 1866
SYNCALLIA Guérin-Méneville, [1844]

36a0034 A. aurea (Fitch, 1856) (Deiopeia) [NEW]

NOTE: Recognized as a valid species by Wilson et al. (2010); previously considered a synonym of *A. punctella*. However, *punctella* is a synonym of *A. pustulella* (Fabricius, 1794) (sometimes misspelled "*pastulella*") which does not occur north of Central America.

compta (Clemens, 1861) (Poeciloptera)
edithella Busck, 1908 (Atteva)
ergatica Walsingham, 1914 (Atteva)
exquisita Busck, 1912 (Atteva)
floridana (Neumoegen, 1891) (Oeta)
microsticta Walsingham, 1914 (Atteva)
punctella of authors; (not Stoll, in: Cramer, [1782]) (Phalaena) misappl. [2401]

36a0035 A. gemmata (Grote, 1873) (Oeta) [NEW]

NOTE: New NA record. This species, described from Cuba and recently recognized as distinct from *A. aurea*, was discovered in FL in 2018 by Jim Troubridge.

fastuosa (Zeller, 1877) (Oeta)

23. Family PRAYDIDAE Moriuti, 1977

by Jae-Cheon Sohn & Jean-François Landry

Praydids are very small moths, with wingspans of 10 to 15 mm. The adults possess relatively broad wings that are typically gray or brown. The members of this family are distinguished from other yponomeutoids by an unusually modified eighth sternum in the male and by the anterior apophyses of the female not having a basal branch (Moriuti 1977). The larvae feed on diverse trees and shrubs, and they are usually leaf miners or borers in flower buds or shoots.

The family Praydidae comprises about 60 species worldwide. Five species in three genera are known from the Nearctic region. *Prays fraxinella* is an adventive species in NA and a potential pest on ash trees. A world catalog is included in Lewis & Sohn (2015).

Genus EUCATAGMA Busck, 1900

36a0036 E. amyrisella Busck, [1901] 1900 (Eucatagma) 2402
amyridella; Meyrick, 1914 (Eucatagma) emend.

Genus ATEMELIA Herrich-Schäffer, 1853
ID INFO (partial): Sohn & Epstein (2019).
ORINYMPHA Meyrick, 1927

36a0037 A. aetherias (Meyrick, 1927) (Orinympha) 2411
36a0038 A. casimiroae Sohn & Epstein, 2019 (Atemelia) [NEW]

Genus PRAYS Hübner, [1826] 1825
PEPILLA Guenée, 1845

36a0039 P. atomocella (Dyar, 1902) (Hyponomeuta) 2416
atomosella; (Meyrick, 1914) (Yponomeuta) emend.
diaphorus (Walsingham, 1907) (Hyponomeuta)
36a0040 P. fraxinella (Bjerkander, 1784) (Tinea) I [NEW]
NOTE: This European introduction was documented in NA by deWaard et al. (2009).
caenobitella (Hübner, [1810-1813]) (Tinea)
circulella (Fabricius, 1794) (Tinea)
curtisella Donovan, 1793 (Prays)
hortuella (Stephens, 1834) (Anacampsis)
maculella (Fabricius, 1794) (Tinea)

24. Family LYONETIIDAE Stainton, 1854

by Jae-Cheon Sohn

Lyonetiids are extremely small moths, usually 5 to 10 mm in wingspan. The white or pale gray adults have a smooth frons and an eye cap on the base of the antenna. This family comprises two subfamilies differing in the length of antenna and the configuration of tergal spines on the abdomen. There is some evidence that the subfamily Cemiostominae may not belong to this family (Sohn et al. 2013). The larvae are leaf or twig miners, mostly of woody dicots in various families.

The family Lyonetiidae includes about 200 described species worldwide. A total of 18 species have been found in the Nearctic region. The group is poorly known and is in need of taxonomic work.

Subfamily LYONETIINAE Stainton, 1854

Genus LYONETIA Hübner, 1825

ID INFO (partial): Baryshnikova (2007).

ARGROMIGES Curtis, 1829
ARGYROMIS Stephens, 1829
ELACHISTA Kollar, 1832
GRACILLAROIDES Bruand, 1851
LYONETIOLA Kuroko, 1964
NOCTURNO Gistel, 1847
OLETHRIA Gistel, 1848

36a0041 L. alniella Chambers, 1875 (Lyonetia) 468

36a0042 L. candida Braun, 1916 (Lyonetia) 469

NOTE: This species was treated as a synonym of *L. ledi* in Kuroko (1964) apparently without justification (that synonymy was overlooked or ignored by Davis, in: Hodges et al. 1983). The two are well separated by DNA barcode, and we recognize *L. candida* as a valid species, representing populations in NA outside of Beringia.

36a0043 L. latistrigella Walsingham, 1882 (Lyonetia) 470

36a0044 L. ledi Wocke, 1859 (Lyonetia) H [NEW]

36a0045 L. prunifoliella (Hübner, 1796) (Tinea) H [NEW]

acerifoliella (Curtis, 1850) (Argyromyges)
albella (Eversmann, 1844) (Elachista)
apicistrigella Chambers, 1875 (Lyonetia)
gracilella Chambers, 1876 (Lyonetia)
malinella (Matsumura, 1907) (Lithocolletes)
malivorella Matsumura, 1931 (Lyonetia)
nidificansella Packard, 1869 (Lyonetia)
padifoliella (Hübner, 1813) (Tinea)
ringoniella Matsumura, 1931 (Lyonetia)
schineri Nowicki, 1864 (Lyonetia)
sittaepenella (Hübner, 1825) (Poeciloptilia)
speculella Clemens, 1862 (Lyonetia) *[472]*

NOTE: The Nearctic taxon *speculella* was synonymized with the Palaearctic *L. prunifoliella* by Schmitt et al. (1996). However, NA populations may represent a distinct species; they are placed in two BINs narrowly separated by DNA barcode and widely separated from Eurasian specimens (contributed by JDY).

36a0046 L. pulverulentella Zeller, 1839 (Lyonetia) H [NEW]

NOTE: Holarctic species first identified in NA in BC by Landry et al. (2013).

frigidariella Herrich-Schäffer, 1855 (Lyonetia)

36a0047 L. saliciella Busck, 1904 (Lyonetia) 471

Subfamily CEMIOSTOMINAE Spuler, 1899

Genus PROLEUCOPTERA Busck, 1902

36a0048 P. smilaciella (Busck, [1901] 1900) (Leucoptera) 474

Genus PARALEUCOPTERA Heinrich, 1918

36a0049 P. albella (Chambers, 1871) (Cemiostoma) 475

36a0050 P. heinrichi Jones, 1947 (Paraleucoptera) 475.1

Genus LEUCOPTERA Hübner, 1825

CEMIOSTOMA Zeller, 1848
PERILEUCOPTERA Silvestri, 1943

36a0051 L. coffeella (Guérin-Méneville & Perrottet, 1842) (Elachista) I [NEW]

NOTE: Recent addition to the NA fauna, discovered in FL in 2021 by JEH. This moth, known as the Coffee Leaf Miner, is a pest of coffee (*Coffea arabica* L.; Rubiaceae) that has become established on ornamental plants in the Fort Lauderdale area. Voucher specimens have been deposited in the FSCA (contributed by JEH).

36a0052 L. erythrinella Busck, 1900 (Leucoptera) 477

36a0053 L. guettardella Busck, 1900 (Leucoptera) 478

36a0054 L. laburnella (Stainton, 1851) (Cemiostoma) I 479

NOTE: Introduced from Europe (EJvN, in litt.).

cytisella Amsel, 1939 (Leucoptera)
wailesella (Stainton, 1858) (Cemiostoma)

36a0055 L. pachystimella Busck, 1904 (Leucoptera) 480

36a0056 L. robinella Braun, 1925 (Leucoptera) 481

36a0057 L. spartifoliella (Hübner, [1813]) (Tinea) I 482

NOTE: Introduced from France to control Scotch Broom (*Cytisus scoparius* (L.); Fabaceae) in CA and OR, but was found to already be present on the west coast of USA, probably introduced accidentally prior to 1940 (Winston et al. 2014).

cytisanthi Deschka, 1972 (Leucoptera)
punctaurella (Haworth, 1828) (Tinea)

[LYONETIIDAE – Unplaced to Subfamily]

Genus ACANTHOCNEMES Chambers, 1878

CACONOME Dyar, 1903

36a0058 A. fuscoscapulella Chambers, 1878 (Acanthocnemes) 473

25. Family ARGYRESTHIIDAE Bruand, 1851 (shiny head-standing moths)

by Jae-Cheon Sohn

Shiny head-standing moths are extremely small to very small moths, with wingspans of 5 to 15 mm. They can be easily recognized by their unique male genitalia. The adults often have a metallic luster on the wings and exhibit a characteristic resting posture with the head down and abdomen pointing upwards. The larvae are usually internal feeders in buds, fruits, or twigs, or leaf miners on various woody dicots and conifers.

An association of this family with Yponomeutidae has been disputed in recent molecular phylogenetic studies (Mutanen et al. 2010; Sohn et al. 2013). The Argyresthiidae currently contain only the genus *Argyresthia*, but Lewis & Sohn (2015) mentioned the possible existence of a second genus from the Neotropics. The family comprises about 160 species worldwide; a world catalog is included in Lewis & Sohn (2015). There are 54 species known in the Nearctic region. Many species were treated by Busck (1907b), Forbes (1923), and Freeman (1972), but a modern revision is needed.

Genus ARGYRESTHIA Hübner, 1825

ARGYROSETIA Stephens, 1829
BLASTOTERE Ratzeburg, 1840
BUSCKIA Dyar, 1903
EDERESA Curtis, 1833
EURYNOME Chambers, 1875
ISMENE Stephens, 1834
OLIGOS Treitschke, 1830
PARAARGYRESTHIA Moriuti, 1969

36a0059 A. abies Freeman, 1972 (Argyresthia) 2433
36a0060 A. affinis Braun, 1940 (Argyresthia) 2434
36a0061 A. alternatella Kearfott, 1908 (Argyresthia) 2435
36a0062 A. altissimella Chambers, 1877 (Argyresthia) 2436
36a0063 A. annettella Busck, 1907 (Argyresthia) 2437
36a0064 A. apicimaculella Chambers, 1874 (Argyresthia) 2438
visaliella Chambers, 1875 (Argyresthia)
36a0065 A. arceuthobiella Busck, 1916 (Argyresthia) 2439
36a0066 A. aureoargentella Brower, 1953 (Argyresthia) 2440
36a0067 A. austerella Zeller, 1873 (Argyresthia) 2441
36a0068 A. belangerella Chambers, 1875 (Argyresthia) 2442
36a0069 A. bolliella Busck, 1907 (Argyresthia) 2443
36a0070 A. calliphanes Meyrick, 1913 (Argyresthia) 2444
36a0071 A. canadensis Freeman, 1972 (Argyresthia) 2445
36a0072 A. castaneella Busck, 1915 (Argyresthia) 2446
36a0073 A. chalcochrysa Meyrick, 1913 (Argyresthia) 2447
36a0074 A. columbia Freeman, 1972 (Argyresthia) 2448
36a0075 A. conjugella Zeller, 1839 (Argyresthia) H 2449
NOTE: Supposedly introduced from Europe in 1897 to BC (Covell 1984), but presence of populations in remote parts of Canada and genetic diversity within NA populations (BOLD data; BIN AAB2333) indicate that this species is Holarctic.
aeraeiella Stainton, 1871 (Argyresthia)
maculosa Tengström, 1848 (Argyresthia)
36a0076 A. cupressella Walsingham, 1890 (Argyresthia) 2450
36a0077 A. deletella Zeller, 1873 (Argyresthia) 2451
36a0078 A. eugeniella Busck, 1916 (Argyresthia) 2452
36a0079 A. flexilis Freeman, 1960 (Argyresthia) 2454
36a0080 A. franciscella Busck, 1915 (Argyresthia) 2453
36a0081 A. freyella Walsingham, 1890 (Argyresthia) 2455
36a0082 A. furcatella Busck, 1916 (Argyresthia) 2456
36a0083 A. goedartella (Linnaeus, 1758) (Phalaena) H 2457
NOTE: Most NA material currently identified as this species appears to be *A. calliphanes*, with "true" *A. goedartella* restricted to Eurasia and possibly NA portions of Beringia. There is significant genetic variation in NA populations currently attributed to this species. For now we retain *A. goedartella* as a Holarctic species, pending further research.
aurescentella Uffeln, 1930 (Argyresthia)
divisella Dufrane, 1960 (Argyresthia)
literella (Haworth, 1828) (Tinea)
semiargentella (Donovan, 1793) (Phalaena)
splendida Reutti, 1898 (Argyresthia)
uniformella Dufrane, 1960 (Argyresthia)
36a0084 A. inscriptella Busck, 1907 (Argyresthia) 2458
36a0085 A. laricella Kearfott, 1908 (Argyresthia) 2459
36a0086 A. libocedrella Busck, 1916 (Argyresthia) 2460
36a0087 A. luteella (Chambers, 1875) (Eurynome) 463
NOTE: Moved from *Philonome* (Tineidae) to *Argyresthia* by Sohn et al. (2015b).
36a0088 A. mariana Freeman, 1972 (Argyresthia) 2461
36a0089 A. media Braun, 1914 (Argyresthia) 2462
36a0090 A. mesocausta Meyrick, 1913 (Argyresthia) 2463
36a0091 A. monochromella Busck, 1921 (Argyresthia) 2464
36a0092 A. montella Chambers, 1877 (Argyresthia) 2465
36a0093 A. nymphocoma Meyrick, 1919 (Argyresthia) 2466
36a0094 A. oreasella Clemens, 1860 (Argyresthia) 2467
andereggiella of authors; (not Duponchel, 1838) (Oecophora) misappl.
NOTE: This name is a synonym of the Palaearctic *A. ivella* (Haworth, 1828), but it was listed as a synonym of *A. oreasella* by Heppner & Duckworth (in Hodges et al. 1983), and attributed therein to Zeller, 1873.
oreadella; Meyrick, 1914 (Argyresthia) emend.
36a0095 A. pallidella Braun, 1918 (Argyresthia) 2468
36a0096 A. pedmontella Chambers, 1877 (Argyresthia) 2469
pedemontella; Meyrick, 1914 (Argyresthia) emend.
36a0097 A. picea Freeman, 1972 (Argyresthia) 2470
36a0098 A. pilatella Braun, 1910 (Argyresthia) 2471
36a0099 A. plicipunctella Walsingham, 1890 (Argyresthia) 2472
36a0100 A. pruniella (Clerck, 1759) (Phalaena) I [NEW]
NOTE: Introduced European species first documented in NA by deWaard et al. (2009).
comella (Scopoli, 1763) (Phalaena)
ephippella (Fabricius, 1776) (Alucita)
granonensis Gibeaux, 1983 (Argyresthia)
semialbella (Haworth, 1802) (Tinea)
36a0101 A. pseudotsuga Freeman, 1972 (Argyresthia) 2473
36a0102 A. pygmaeella ([Denis & Schiffermüller], 1775) (Tinea) H 2474
NOTE: Nearctic material currently identified as this species differs slightly from European material, based on DNA barcode, and may represent *A. chalcochrysa*. For now we retain *A. pygmaeella* as a Holarctic species, but further research is warranted.
alpina Müller-Rutz, 1920 (Argyresthia)
capilella Strand, 1901 (Argyresthia)
hyperboreella Strand, 1920 (Argyresthia)
rudolphella (Esper, 1791) (Tinea)
semifasciella (Haworth, 1828) (Tinea)
36a0103 A. quadristrigella Zeller, 1873 (Argyresthia) 2475
36a0104 A. quercicolella Chambers, 1877 (Argyresthia) 2476
36a0105 A. rileiella Busck, 1907 (Argyresthia) 2477
36a0106 A. ruidosa Braun, 1940 (Argyresthia) 2478
36a0107 A. subreticulata Walsingham, 1882 (Argyresthia) 2479
36a0108 A. thoracella Busck, 1907 (Argyresthia) 2480
36a0109 A. thuiella (Packard, 1871) (Bucculatrix) 2481
NOTE: Nearctic species introduced to Europe in about 1970 (Kirichenko et al. 2018).
36a0110 A. trifasciae Braun, 1910 (Argyresthia) 2482
triplicata Meyrick, 1914 (Argyresthia)
36a0111 A. tsuga Freeman, 1972 (Argyresthia) 2483
36a0112 A. undulatella Chambers, 1874 (Argyresthia) 2484

26. Family YPONOMEUTIDAE Stephens, 1829 (ermine moths and allies)

by Jae-Cheon Sohn & Jean-François Landry

Yponomeutids are very small to small moths, with wingspans ranging from 5 to 30 mm. The adults of most species have pale white or gray forewings, usually with contrastingly dark or black dots or fasciae. There are two subfamilies: Yponomeutinae and Saridoscelinae. The larvae live in loose webs, some of them gregariously, and tie or mine leaves of woody plants, which are their primary hosts.

The Yponomeutidae, as well as the superfamily Yponomeutoidea, was redefined recently by Sohn et al. (2013). As currently delimited, the family Yponomeutidae contains about 360 named species worldwide, with 26 species known in the Nearctic region. A world catalog is included in Lewis & Sohn (2015). *Eucalantica* are currently associated with Saridoscelinae (Lewis & Sohn 2015).

Subfamily YPONOMEUTINAE Stephens, 1829

Tribe YPONOMEUTINI Stephens, 1829

Genus OCNEROSTOMA Zeller, 1847
ID INFO: Freeman (1960).

36a0113 O. piniariella Zeller, 1847 (Ocnerostoma) I 2409
NOTE: Introduced from Europe, first found in NA in NY in 1882, and in BC in 1922.
copiosella Frey, 1856 (Ocnerostoma)
galactitella (Eversmann, 1844) (Oecophora)

36a0114 O. strobivorum Freeman, 1960 (Ocnerostoma) 2410

Genus SWAMMERDAMIA Hübner, [1826] 1825
ID INFO: Duckworth (1965).
MACAROPHANTA Meyrick, 1932

36a0115 S. caesiella (Hübner, [1796]) (Tinea) H/I 2413
caesia (Haworth, 1828) (Erminea)
castaneae Busck, 1914 (Swammerdamia)
cuprescens Braun, 1918 (Swammerdamia)
griseocapitella (Stainton, 1851) (Tinea)
heroldella Hübner, [1826] 1825 (Swammerdamia)
NOTE: Contrary to Lewis & Sohn (2015), the name *heroldella* is a synonym of *Tinea caesiella* Hübner, [1810-1813] (now a synonym of *Paraswammerdamia albicapitella*), not *T. caesiella* Hübner, [1796]. Duckworth (1965) and others misapplied *heroldella* to the incorrect *caesiella* species.
nubeculella (Tengström, 1848) (Tinea)

36a0116 S. pyrella (de Villers, 1789) (Phalaena) I 2414
NOTE: Introduced from Europe (Duckworth 1965).
beirnei Doğanlar, 1979 (Swammerdamia) N. SYN.
NOTE: New synonymy. JFL examined the type series of *S. beirnei* and found no morphological differences with *S. pyrella*; they also shared the same DNA barcodes, supporting their synonymy.
cerasiella (Hübner, 1813) (Tinea)
pelicaria pyri (Retzius, 1783) (Phalaena) unavail.
NOTE: This taxon was described as a trinomen and is unavailable (ICZN 2014).
sapporella (Matsumura, 1931) (Argyresthia)

Genus PARASWAMMERDAMIA Friese, 1960

36a0117 P. conspersella (Tengström, 1848) (Tinea) H [NEW]
NOTE: Added to the NA list, and placed in *Paraswammerdamia*, following Handfield (2002); discussed more extensively by Landry et al. (2013).
moensis (Strand, 1920) (Swammerdamia)

36a0118 P. lapponica of authors; (not Petersen, 1932) (Swammerdamia) MISAPPL. [NEW]
NOTE: Added to the NA list, and placed in *Paraswammerdamia*, following Handfield (2002). However, additional specimens and DNA barcodes show that they refer to an undescribed species (JFL, in litt.).

36a0119 P. albicapitella (Scharfenberg, 1805) (Phalaena)I [NEW]
NOTE: Introduced from Europe, first found in NA in BC in 2006 (Landry et al. 2013).
caesiella (Hübner, [1810-1813]) (Tinea)
NOTE: Hemming (1937, vol. 1, p. 213, para. 238) showed that plates 45 to 63 of the Tineae were published between some date in 1810 and 20 June 1813 but could not be more precisely established.
spiniella (Hübner, 1809) (Tinea)

36a0120 P. nebulella (Goeze, 1783) (Phalaena) I [NEW]
NOTE: Introduced from Europe (deWaard et al. 2009).
lutarea (Haworth, 1828) (Erminea)
oxyacanthella (Duponchel, 1843) (Tinea)

Genus YPONOMEUTA Latreille, 1796
COENYPHANTES Hübner, 1822
ERMINEA Haworth, 1811
HYPHANTES Hübner, [1873] 1806
HYPONOMEUTA; Billberg, 1820 emend.
NYGMIA Hübner, [1826] 1825

36a0121 Y. cagnagella (Hübner, [1813]) (Tinea) I [NEW]
NOTE: Introduced from Europe, recognized in NA by Hoebeke (1987).
evonymi (Zeller, 1844) (Hyponomeuta)

36a0122 Y. malinellus Zeller, 1838 (Yponomeuta) I [NEW]
NOTE: Introduced from Europe to western USA (Unruh et al. 1993).
anomalella (Dufrane, 1960) (Hyponomeuta)
malivorella Guenée, 1845 (Yponomeuta)

36a0123 Y. multipunctella (Clemens, 1860) (Hyponomeuta) 2420
euonymella (Chambers, 1872) (Hyponomeuta) [2417]
leucothorax (Meyrick, 1913) (Hyponomeuta) [2418]
orbimaculella (Chambers, 1873) (Hyponomeuta)
ordinatellus (Walker, 1863) (Hyponomeuta)
semialba (Meyrick, 1913) (Hyponomeuta) [2423]
wakarusa (Gaumer, 1878) (Hyponomeuta)

36a0124 Y. padella (Linnaeus, 1758) (Phalaena) I 2421
NOTE: Introduced from Europe to BC (Sperling et al. 1995).
alba (Dufrane, 1960) (Hyponomeuta)
grisea (Dufrane, 1960) (Hyponomeuta)
variabilis (Zeller, 1844) (Hyponomeuta)

36a0125 Y. plumbella ([Denis & Schiffermüller], 1775) (Tinea) I 2422
NOTE: Introduced from Europe; initially intercepted once in NA, in MA in 1949 (Hoebeke 1987) but subsequently found in several counties in MA and RI between 1964 and 2004 (Mark Mello, 2011 and Tony Roberts, 1997, both pers. comm. to JFL).
lentiginella (Schrank, [1802] 1796) (Tinea)
roscidella (Hübner, 1793) (Phalaena)

Genus TEINOPTILA Sauber, 1902
CHOUTINEA Huang, 1982

36a0126 T. calcarata (Meyrick, 1924) (Hyponomeuta) [NEW]
NOTE: A recent discovery in NA, first found in FL in 1989 (Dickel 1992).

Genus ZELLERIA Stainton, 1849
EUDRYMOPA Lower, 1908

36a0127 Z. arizonica Braun, 1940 (Zelleria) 2424
36a0128 Z. celastrusella Kearfott, 1903 (Zelleria) 2425
celastrella; (Meyrick, 1914) (Xyrosaris) emend.
36a0129 Z. haimbachi Busck, 1915 (Zelleria) 2427
36a0130 Z. ochroplagiata (Braun, 1918) (Xyrosaris) 2428
36a0131 Z. pyri Clarke, 1942 (Zelleria) 2430
hepariella of authors; not Stainton, 1849 (Zelleria) misappl.
NOTE: Records of this species in Canada (by Cannings & Scudder 2007) are erroneous, based on misidentified material of *Z. pyri*.
36a0132 Z. retiniella Forbes, 1923 (Zelleria) 2431
36a0133 Z. semitincta Meyrick, 1930 (Zelleria) 2432

Genus KESSLERIA Nowicki, 1864
CIRCOSTOLA Meyrick, 1889
HOFMANNIA Wocke, 1876

36a0134 K. martinella (Walker, 1863) (Tinea) 2419
afflictella (Walker, 1864) (Tinea)
36a0135 K. parnassiae (Braun, 1940) (Zelleria) 2429

Genus EUHYPONOMEUTOIDES Gaj, 1954
NORDMANIANA Friese, 1960

36a0136 E. gracilariella (Busck, 1904) (Zelleria) 2426
ribesella (Busck, 1904) (Zelleria)

Subfamily SARIDOSCELINAE Moriuti, 1977

Genus EUCALANTICA Busck, 1904
ID INFO: Sohn & Nishida (2011).

36a0137 E. polita (Walsingham, 1881) (Calantica) 2350
36a0138 E. vaquero Sohn, 2011 (Eucalantica) [NEW]

27. Family YPSOLOPHIDAE Guenée, 1845 (sickle-winged moths)

by Jae-Cheon Sohn

Sickle-winged moths are small moths, with wingspans of 15 to 30 mm. The adults often have brightly colored forewings with a hooked tip. This family includes two subfamilies: Ypsolophinae and Ochsenheimeriinae. Many species of *Ypsolopha* exhibit a characteristic resting posture with the head down. The larvae live in open webs on the leaves of diverse plants.

The family Ypsolophidae comprises about 160 recognized species, primarily from the temperate Holarctic region; 32 species are known in the Nearctic region. A modern taxonomic revision of the Nearctic species of *Ypsolopha* is underway by the author.

Subfamily YPSOLOPHINAE Guenée, 1845

Genus EUCERATIA Walsingham, 1881
ID INFO: Sohn & Powell (2015).

36a0139 E. castella Walsingham, 1881 (Euceratia) 2351
36a0140 E. intermedia Sohn & Powell, 2015 (Euceratia) [NEW]
36a0141 E. securella Walsingham, 1881 (Euceratia) 2352

Genus YPSOLOPHA Latreille, 1796

ABEBAEA Hübner, 1825
CEROSTOMA Latreille, [1802]
CHAETOCHILUS Stephens, 1834
CHALCONYMPHA Meyrick, 1931
CREDEMNA Forbes, 1923
CREDEMNON Wallengren, 1880
HARPIPTERIX Hübner, 1825
HARPIPTERYX; Treitschke, 1833 emend.
HYPOLEPIA Guenée, 1845
HYPOSILOPHUS; Agassiz, 1847 emend.
HYPSOLOPHA; Billberg, 1820 emend.
HYPSOLOPHUS; Illiger, 1801 emend.
MAPA Strand, 1911
MELITONYMPHA Meyrick, 1927
ORIDRYAS Meyrick, 1938
PERICLYMENOBIUS Wallengren, 1880
PLUTELLOPTERA; Walsingham, 1881 missp.
PLUTELOPTERA Chambers, 1880
PTEROXIA Guenée, 1845
PYCNOPOGON Chrétien, 1922
THERISTIS Hübner, 1825
TRACHOMA Wallengren, 1880
YPSILOPHUS; Oken, 1815 emend.
YPSOLOPHUS; Fabricius, 1798 emend.

36a0142 Y. angelicella (Busck, 1903) (Cerostoma) 2368
maculatella (Busck, 1906) (Cerostoma) N. SYN. [2386]
NOTE: The author (JCS) found no significant differences between these two species (n. syn.). Their DNA barcodes overlap (JFL unpubl. data). See Sohn (IN PRESS) for details.
36a0143 Y. arizonella (Busck, 1903) (Cerostoma) 2369
36a0144 Y. barberella (Busck, 1903) (Cerostoma) 2370
36a0145 Y. buscki Heppner, 1982 (Ypsolopha) [NEW]
NOTE: Replacement name by Heppner (1982b) for *Y. manella*, which (after synonymy of *Cerostoma* with *Ypsolopha*) is a junior homonym of *Ypsolophus manella* Möschler, 1890.
manella (Busck, 1903) (Cerastoma [sic]) preocc. [2387]
36a0146 Y. canariella (Walsingham, 1881) (Cerostoma) 2371
dentiferella (Walsingham, 1881) (Cerostoma) N. SYN. [2376]
NOTE: New synonymy. Powell & Opler (2009) mentioned possible synonymy of *Y. dentiferella* and *Y. canariella*. The author (JCS) found no significant differences between those two species and supported their synonymy. Their DNA barcodes overlap (JFL unpubl. data).
frustella (Walsingham, 1881) (Cerostoma) N. SYN. [2382]
NOTE: New synonymy. Powell & Opler (2009) mentioned possible synonymy of *Y. dentiferella* and *Y. frustella*. The author (JCS) found no significant differences between those two species and supported their synonymy.
frustrella; [various, no date] (Ypsolopha) missp.
36a0147 Y. cervella (Walsingham, 1881) (Cerostoma) 2372
electropa (Meyrick, 1914) (Cerostoma) N. SYN. [2378]
NOTE: New synonymy. The author (JCS) examined the type specimen of *Cerostoma electropa* and found it conspecific with *Y. cervella*.
subsylvella (Walsingham, 1889) (Cerostoma)
36a0148 Y. cockerella (Busck, 1903) (Abebaea) 2373
NOTE: Clarke (1965) synonymized *Melitonympha heteraula* with *Y. cockerella*; apparently this was overlooked by Heppner & Duckworth (in Hodges et al. 1983).
heteraula (Meyrick, 1927) (Melitonympha) [2354]
36a0149 Y. delicatella (Busck, 1903) (Abebaea) 2374
36a0150 Y. dentella (Fabricius, 1775) (Alucita) I 2375
NOTE: Introduced from Eurasia decades ago (Pohl et al. 2010).
affinitella (Staudinger, 1892) (Cerostoma)
harnatus (Fabricius, 1798) (Ypsolophus)
harpella ([Denis & Schiffermüller], 1775) (Tinea)
pallescentella (Staudinger, 1892) (Cerostoma)
xylostella of authors; (not Linnaeus, 1758) (Phalaena) misappl.
NOTE: Forbes' (1923) use of the name *Cerostoma xylostella* L. (which appears to be the same epithet currently applied to the Diamondback Moth, *Plutella xylostella*), was applied therein to the species currently known as *Y. dentella*.
36a0151 Y. dorsimaculella (Kearfott, 1907) (Cerostoma) 2377
NOTE: This species has been treated as a synonym of *Y. vittella* (Linnaeus, 1758). The author (JCS) examined the type specimen of *Cerostoma dorsimaculella* and found its distinctiveness from *Y. vitella*. Here *Y. dorsimaculella* is recovered as a separate species.
36a0152 Y. elongata (Braun, 1925) (Cerostoma) 2379
36a0153 Y. falciferella (Walsingham, 1881) (Cerostoma) 2380
ordinalis (Meyrick, 1914) (Cerostoma)
36a0154 Y. flavistrigella (Busck, 1906) (Cerostoma) 2381
36a0155 Y. gerdanella (Busck, 1903) (Abebaea) 2383
36a0156 Y. leptaula (Meyrick, 1927) (Cerostoma) 2384
36a0157 Y. lyonothamnae (Powell, 1967) (Cerostoma) 2385
36a0158 Y. nella (Busck, 1903) (Abebaea) 2388
36a0159 Y. ochrella (Chambers, 1880) (Pluteloptera) [NEW]
NOTE: This species was raised recently from synonymy with *Y. ustella* by Sohn (2015). Reports of *Y. ustella* in NA, including by Heppner & Duckworth (in Hodges et al. 1983) are erroneous, based on that previous concept of the species.
radiatella of authors; (not Donovan, 1794) (Tinea) misappl.
NOTE: This name has been reported from BC in error; those records refer to *Y. ochrella*.
rubrella (Dyar, 1902) (Cerostoma) [2391]
ustella of authors; (not Clerck, 1759) (Phalaena) misappl. [2398]
36a0160 Y. oliviella (Busck, 1903) (Cerostoma) 2389
36a0161 Y. querciella (Busck, 1903) (Abebaea) 2390
36a0162 Y. schwarziella (Busck, 1903) (Cerostoma) 2393
36a0163 Y. senex (Walsingham, 1889) (Trachoma) 2392
koebelella (Dyar, 1900) (Cerostoma)
36a0164 Y. striatella (Busck, 1903) (Cerostoma) 2394
36a0165 Y. sublucella (Walsingham, 1881) (Cerostoma) 2395
36a0166 Y. undulatella (Busck, 1906) (Cerostoma) 2396
36a0167 Y. unicipunctella (Busck, 1903) (Cerostoma) 2397
36a0168 Y. vintrella (Busck, 1906) (Cerostoma) 2399
36a0169 Y. walsinghamiella (Busck, 1903) (Trachoma) 2400
instabilella of authors; (not Mann, 1866) (Cerostoma) misappl.

Subfamily OCHSENHEIMERIINAE Herrich-Schäffer, 1857

Genus OCHSENHEIMERIA Hübner, 1825
ID INFO: Davis (1975), Karsholt & Nielsen (1984).
AERIA Gistel, 1848
LEPIDOCERA Curtis, 1831
PHYGAS Treitschke, 1833

36a0170 O. vacculella Fischer von Röslerstamm, 1842 (Ochsenheimeria) I 460
NOTE: Introduced from Eurasia (Ellis 1979).
danilevskii Zagulajev, 1972 (Ochsenheimeria)

28. Family PLUTELLIDAE Guenée, 1845 (diamondback moths)

by Jae-Cheon Sohn

Diamondback moths are small moths, with wingspans of 15 to 20 mm. The adults have narrow wings, often with bright fasciae or patches. The larvae live in loose webs and skeletonize leaves, primarily of Brassicaceae. Pupation usually occurs in an open-mesh cocoon.

The family Plutellidae is small with about 150 known species, 15 of which occur in the Nearctic region. The cosmopolitan species *Plutella xylostella* is a notorious pest of many cruciferous plants and crops. Baraniak (2007) split the genus *Plutella* into three genera, but Landry & Pohl (in Pohl et al. 2018) objected to that, and the latter opinion is followed herein. A critical review is needed for the world species and genera of Plutellidae. Robinson & Sattler (2001) provide a world checklist in an appendix therein.

Genus EIDOPHASIA Stephens, 1842
HUFNAGELIA Reutti, 1853
PARASEMIA Stephens, 1841
SPANIA Guenée, 1845

36a0171 E. dammersi (Busck, 1934) (Plutella) 2359
36a0172 E. albidorsella (Walsingham, 1881) (Plutella) 2357
36a0173 E. vanella (Walsingham, 1881) (Plutella) 2365

Genus PLUTELLA Schrank, 1802
ID INFO (partial): Baraniak (2007).
NOTE: Baraniak (2007) separated the genera *Plutelloptera* and *Pseudoplutella* from *Plutella*, based on minor differences. Here they are treated as synonyms of *Plutella* (n. syn.), following Landry & Pohl (in Pohl et al. 2018).
ANADETIA Hübner, 1825
CREAGRIA Sodoffsky, 1837
EUOTA Hübner, 1825
PLUTELLOPTERA Baraniak, 2007 N. SYN.
PSEUDOPLUTELLA Baraniak, 2007 N. SYN.

Plutella geniatella group Robinson & Sattler, 2001

36a0174 P. notabilis Busck, 1904 (Plutella) 2361
36a0175 P. omissa Walsingham, 1889 (Plutella) 2362
36a0176 P. armoraciae Busck, 1912 (Plutella) 2358
monochlora Meyrick, 1914 (Plutella)
36a0177 P. hyperboreella Strand, 1902 (Plutella) REV. COMB. H [NEW]
NOTE: Holarctic, recently discovered in NA in NU in 2007 (Landry et al. 2013). This species was synonymized with *P. polaris* by Robinson & Sattler (2001; appendix), but was treated as valid by Baraniak (2007). We concur with the latter and treat the two taxa as separate species, as they have different DNA barcodes. Recent reports of *P. polaris* in NA are based on misidentifications of *P. hyperboreella*.
polaris of authors; not Zeller, 1880 (Plutella) misid.
36a0178 P. haasi of authors; not Staudinger, 1883 (Plutella) MISAPPL. [NEW]
NOTE: The report of *P. haasi* in NA (Handfield 2002) is a misidentification of an undescribed species (JFL in litt.).

Plutella xylostella group Robinson & Sattler, 2001

36a0179 P. porrectella (Linnaeus, 1758) (Phalaena) REV. COMB. H/I 2363
hesperidella (Hübner, 1796) (Tinea)
vigilaciella Clemens, 1860 (Plutella)
36a0180 P. xylostella (Linnaeus, 1758) (Phalaena) C 2366
albovenosa Walsingham, 1907 (Plutella)
brassicella Fitch, 1856 (Plutella)
butalidella Turati, 1926 (Plutella)
cicerella (Rondani, 1876) (Gelechia)
cinerea (Geoffroy, in: Fourcroy, 1785) (Tinea)
continentalis Zagulajev, 1981 (Plutella)
cruciferarum Zeller, 1843 (Plutella)
dubiosella Beutenmüller, 1889 (Plutella)
karsholtella Baraniak, 2007 (Plutella)
limbipennella Clemens, 1860 (Plutella)
maculipennis (Curtis, 1832) (Cerostoma)
megapterella Bentinck, 1934 (Plutella)
mollipedella Clemens, 1860 (Plutella)

Genus RHIGOGNOSTIS Zeller, 1857
CAUNACA Wallengren, 1880
EUMACHAERISTIS Meyrick, 1938
SUBEIDOPHASIA Moriuti, 1977

36a0181 R. senilella (Zetterstedt, 1839) (Plutella) [NEW]
NOTE: This species was accidentally omitted by Heppner & Duckworth (in Hodges et al. 1983); it was described from GR.
dalella (Stainton, 1849) (Plutella)
marmorosella (Wocke, 1850) (Plutella)
septentrionum (Staudinger, 1857) (Plutella)
36a0182 R. interrupta (Walsingham, 1881) (Plutella) 2360
36a0183 R. poulella (Busck, 1904) (Plutella) 2364
36a0184 R. aleutianella (Beutenmüller, 1889) (Cerostoma) N. COMB. 2367
NOTE: New generic combination and family placement based on examination of specimens by JCS; it was previously placed in *Ypsolopha*. See Sohn (IN PRESS) for details.
36a0185 R. kuusamoensis Kyrki, 1989 (Rhigognostis) H [NEW]
NOTE: Added to the NA list by Landry & Pohl (in Pohl et al. 2018).

29. Family GLYPHIPTERIGIDAE Stainton, 1854 (sedge moths and allies)

by Jae-Cheon Sohn

Glyphipterigids are extremely small to small moths (wingspans range from 4.5 to 30 mm), often with colorful markings on the forewings. This family currently includes three subfamilies: Glyphipteriginae, Acrolepiinae, and Orthoteliinae. Adults of many glyphipterigids are diurnal, although some are also attracted to light. The larvae are mostly borers in monocot stems and leaves.

The family Glyphipterigidae comprises about 535 described species, with 48 species known from the Nearctic region. The Nearctic Glyphipteriginae were revised by Heppner (1985) and most of the Acrolepiinae by Landry (2007).

Subfamily GLYPHIPTERIGINAE Stainton, 1854

ID INFO: Heppner (1985).

Genus ABRENTHIA Busck, 1915

36a0186 A. cuprea Busck, 1915 (Abrenthia) 2336

Genus NEOMACHLOTICA Heppner, 1981

36a0187 N. spiraea Heppner, 1981 (Neomachlotica) [NEW]

Genus DRYMOANA Heppner, 1985

36a0188 D. blanchardi Heppner, 1985 (Drymoana) [NEW]

Genus GLYPHIPTERIX Hübner, 1825

ID INFO: Heppner (1985); also Heppner (1997a).

AECHMIA Treitschke, 1833
ANACAMPSOIDES Bruand, 1850
GLYPHIPTERYX; Zeller, 1839 emend.
GLYPHYTERYX; Hampson, 1918 missp.
HERIBEIA Stephens, 1829

Glyphipterix brauni group Heppner, 1985

36a0189 G. brauni Heppner, 1985 (Glyphipterix) [NEW]

Glyphipterix circumscriptella group Heppner, 1985

36a0190 G. circumscriptella (Chambers, 1881) (Glyphipteryx) 2337
apacheana Heppner, 1985 (Glyphipterix)
circumscripta; Dyar, 1900 (Glyphipterix) missp.

Glyphipterix quadragintapunctata group Heppner, 1985

36a0191 G. quadragintapunctata (Dyar, 1900) (Glyphipteryx) 2338

Glyphipterix powelli group Heppner, 1985

36a0192 G. powelli Heppner, 1985 (Glyphipterix) [NEW]
jucunda Heppner, 1985 (Glyphipterix)
36a0193 G. urticae Heppner, 1985 (Glyphipterix) [NEW]
sylviborealis Heppner, 1985 (Glyphipterix)

Glyphipterix bifasciata group Heppner, 1985

36a0194 G. bifasciata (Walsingham, 1881) (Glyphipteryx) 2339
36a0195 G. hypenantia Heppner, 1985 (Glyphipterix) [NEW]
36a0196 G. yosemitella Heppner, 1985 (Glyphipterix) [NEW]
36a0197 G. unifasciata (Walsingham, 1881) (Glyphipteryx) 2340

Glyphipterix haworthana group Heppner, 1985

36a0198 G. haworthana (Stephens, 1834) (Heribeia) 2341
haworthella (Stephens, 1829) (Heribeia)
schultzella (Amsel, 1949) (Glyphipteryx)
zonella (Zetterstedt, 1839) (Oecophora)
36a0199 G. sistes Heppner, 1985 (Glyphipterix) [NEW]
viridimontis Heppner, 1985 (Glyphipterix)

Glyphipterix californiae group Heppner, 1985

36a0200 G. californiae (Walsingham, 1881) (Glyphipteryx) 2342
36a0201 G. feniseca Heppner, 1985 (Glyphipterix) [NEW]
36a0202 G. juncivora Heppner, 1985 (Glyphipterix) [NEW]
36a0203 G. sierranevadae Heppner, 1985 (Glyphipterix) [NEW]
36a0204 G. arizonensis Heppner, 1985 (Glyphipterix) [NEW]
36a0205 G. roenastes Heppner, 1985 (Glyphipterix) [NEW]

Glyphipterix montisella group Heppner, 1985

36a0206 G. chiricahuae Heppner, 1985 (Glyphipterix) [NEW]
36a0207 G. hodgesi Heppner, 1985 (Glyphipterix) [NEW]
36a0208 G. saurodonta (Meyrick, 1913) (Glyphipteryx) 2343
36a0209 G. cherokee Heppner, 1985 (Glyphipterix) [NEW]
36a0210 G. chambersi Heppner, 1985 (Glyphipterix) [NEW]
36a0211 G. montisella (Chambers, 1875) (Glyphipteryx) 2344
montella; (Meyrick, 1913) (Glyphipteryx) emend.
montinella; Chambers, 1877 (Glyphipterix) missp.
36a0212 G. flavimaculata Heppner, 1985 (Glyphipterix) [NEW]
36a0213 G. melanoscirta Heppner, 1985 (Glyphipterix) [NEW]
36a0214 G. santaritae Heppner, 1985 (Glyphipterix) [NEW]

Glyphipterix ruidosensis group Heppner, 1985

36a0215 G. ruidosensis Heppner, 1985 (Glyphipterix) [NEW]

[Glyphipterix ungrouped]

36a0216 G. floridensis Heppner, 1997 (Glyphipterix) [NEW]
36a0217 G. nordini Heppner, 1997 (Glyphipterix) [NEW]

Genus DIPLOSCHIZIA Heppner, 1981

ID INFO: Heppner (1985); also Heppner (1997b).

36a0218 D. lanista (Meyrick, 1918) (Glyphipteryx) 2345
36a0219 D. minimella Heppner, 1981 (Diploschizia) [NEW]
36a0220 D. habecki Heppner, 1981 (Diploschizia) [NEW]
36a0221 D. regia Heppner, 1981 (Diploschizia) [NEW]
36a0222 D. impigritella (Clemens, 1863) (Glyphipteryx) 2346
exoptatella (Chambers, 1875) (Glyphipterix)
36a0223 D. kimballi Heppner, 1981 (Diploschizia) [NEW]
36a0224 D. kutisi Heppner, 1997 (Diploschizia) [NEW]
36a0225 D. seminolensis Heppner, 1997 (Diploschizia) [NEW]

Genus LEPIDOTARPHIUS Pryer, 1877

ID INFO: Austin et al. (2017).

DESMIDOLOMA Erschoff, 1892

36a0226 L. perornatella (Walker, 1864) (Glyphipteryx) I [NEW]
NOTE: Introduced from East Asia, first found in NA in 2016, in IA (Austin et al. 2017) and IL (Harrison et al. 2019).
fulgens (Erschoff, 1877) (Staintonia)
splendens Pryer, 1877 (Lepidotarphius)

Subfamily ACROLEPIINAE Heinemann, 1870

Genus DIGITIVALVA Gaedike, 1970

ID INFO: Gaedike (1984).

36a0227 D. clarkei Gaedike, 1984 (Digitivalva) [NEW]

Genus ACROLEPIOPSIS Gaedike, 1970

ID INFO: Landry (2007).

ARGIOPE Chambers, 1873

36a0228 A. reticulosa (Braun, 1927) (Acrolepia) 2492
36a0229 A. leucoscia (Meyrick, 1927) (Acrolepia) 2491
36a0230 A. incertella (Chambers, 1872) (Heribeia) 2490
dorsimaculella (Chambers, 1873) (Agriope)
36a0231 A. heppneri Gaedike, 1984 (Acrolepiopsis) [NEW]

36a0232 A. californica Gaedike, 1984 (Acrolepiopsis) [NEW]
liliivora Gaedike, 1994 (Acrolepiopsis)
NOTE: Synonymy by Landry (2007), but 2 BINs are present, and these may represent separate species.

36a0233 A. assectella (Zeller, 1839) (Roeslerstammia) I [NEW]
NOTE: Introduced from Europe; discovered in ON in 1993 (Landry 2007).
vigeliella (Duponchel, 1842) (Lita)

[clade DITRYSIA – SUPERFAMILY UNASSIGNED]

30. Family MILLIERIIDAE Heppner, 1982

by Jadranka Rota

Millieriids are very small moths, with wingspans of about 7 to 10 mm. The family includes two monotypic genera (*Millieria* and *Phormoestes*) and one genus with two species (*Nyx*). It is likely a polyphyletic assemblage. Heppner (1982a) described *Nyx* and *Phormoestes* and placed them together with *Millieria* in the family Choreutidae within subfamily Millieriinae (Heppner 1982a). However, Rota (2011) removed this group from Choreutidae, based on an extensive molecular analysis of the whole order (Mutanen et al. 2010), and reluctantly raised it to the family level in absence of a better solution. The morphology of the articulation of the second abdominal sternum with the metathorax suggests that the millieriid genera do not belong to Apoditrysia (Rota & Kristensen 2011) and are therefore placed in Ditrysia but are without superfamily assignment (van Nieukerken et al. 2011). *Millieria* is distributed in Europe, *Nyx* in South America, while *Phormoestes palmettovora* is the sole member found in NA (Heppner 1982a) and has been found in FL and SC (BGS unpublished data). Its larval host plant is *Sabal palmetto* (Walter) Loddiges (Arecaceae); the larvae are borers within the inflorescence (Heppner 1982a). The group is very poorly known and in need of modern work.

Genus PHORMOESTES Heppner, 1982

37a0001 P. palmettovora Heppner, 1982 (Phormoestes) [NEW]

clade APODITRYSIA Minet, 1983 (all groups following)

[APODITRYSIA – Superfamily Unassigned]

31. APODITRYSIA – UNPLACED TO SUPERFAMILY OR FAMILY

by Gregory R. Pohl

This unnamed group contains six species in four genera that are not currently placed to any superfamily in the Apoditrysia. There are no unifying features for these genera, other than the fact that they have all been problematic to place, and have been excluded from the Yponomeutoidea. They are probably not related to one another; more taxonomic work is required before they can be placed to proper families.

Cycloplasis has historically been placed in the Heliodinidae. Hsu & Powell (2004) excluded it from Heliodinidae but still considered it to be a yponomeutoid. However, it was further excluded from the Yponomeutoidea by Sohn et al. (2013). The genus contains five species worldwide, two of which occur in NA.

Eulyonetia was described by Chambers (1880b) for the species *E. inornatella*. It was originally placed in the Lyonetiidae and was listed there by Davis (in Hodges et al. 1983), but Kyrki (1990) considered it unplaced within the Yponomeutoidea and possibly belonging to the Gelechioidea as it apparently has a scaled proboscis. It is hereby excluded from the Yponomeutoidea, based on advice from JCS (in litt.). The sole species was described from TX.

Pliniaca was described by Busck (1907a) and placed in the Yponomeutidae; he considered it to be closely related to *Euceratia*. McDunnough (1939) and Heppner & Duckworth (in Hodges et al. 1983) placed it in the Plutellidae. Kyrki (1990) excluded it from the Plutellidae but did not place it elsewhere. It is hereby excluded from the Yponomeutoidea based on advice from JCS (in litt.). It is known from two species from CA, described along with the genus by Busck (1907a).

Podiasa was described by Busck (1900) for the species *P. chiococcella* and placed in a broad concept of Tineidae. McDunnough (1939) and Heppner & Duckworth (in Hodges et al. 1983) placed it in Yponomeutidae. It was excluded from Yponomeutoidea by Lewis & Sohn (2015) because the adult males do not have the genitalia concealed by pleural lobes. It may, in fact, belong in Tineoidea. The sole species was described from FL.

Genus CYCLOPLASIS Clemens, 1864

38a0001	C. panicifoliella Clemens, 1864 (Cycloplasis)	2493
38a0002	C. immaculata Braun, 1940 (Cycloplasis)	[NEW]
	NOTE: This species was described by Braun (1940) from OK, but was omitted by Heppner & Duckworth (in Hodges et al. 1983).	

Genus EULYONETIA Chambers, 1880

38a0003	E. inornatella Chambers, 1880 (Eulyonetia)	467

Genus PLINIACA Busck, 1907

38a0004	P. bakerella Busck, 1907 (Pliniaca)	2355
38a0005	P. sparsisquamella Busck, 1907 (Pliniaca)	2356

Genus PODIASA Busck, 1900

38a0006	P. chiococcella Busck, 1900 (Podiasa)	2412

Superfamily DOUGLASIOIDEA Heinemann & Wocke, [1876] 1877

32. Family DOUGLASIIDAE Heinemann & Wocke, [1876] 1877

by Reinhard Gaedike & Gregory R. Pohl

Douglasiids are very small moths, with wingspans of 8 to 12 mm. The adult head is smoothly scaled, and has prominent ocelli, short drooping labial palpi, and an unscaled haustellum. All known species are plainly-colored brown and/or gray moths, with some species having a pale fascia on the forewing. Nearly all members of the family are characterized superficially by the color pattern of the scales, each of which has a whitish colored stripe and a darker tip. Typical for the female genitalia are the presence of variably shaped structures in the area around the ostium and the form of the signum, which consists of thin, needle-shaped thorns of various lengths, with pointed tips. Larvae of Douglasiidae are internal feeders in leaves or reproductive parts of their host plants, which include Boraginaceae, Hydrophyllaceae, Rosaceae, and Lamiaceae. Adults of some species have been observed to fly at dusk, in the morning hours and during the daytime. Males of *Tinagma dryadis* have been observed in *Dryas* spp. (Rosaceae) flowers twitching their wings in a repetitive pattern, presumably for the purposes of mate attraction.

The family Douglasiidae was established by Heinemann & Wocke (1876), who named it after the genus *Douglasia*, which is now a synonym of *Tinagma*. After 1876, the taxonomic placement of the family varied, with the group usually being included in “Glyphipterygidae” (*sic*) or Elachistidae. The group was recognized as a family by Meyrick (1927) and Fletcher (1929), and since then it has been treated consistently as a family-level lineage. Douglasiidae was placed in the clade Apoditrysia by van Nieukerken et al. (2011), and Karsholt & Nielsen (2013) first used the superfamily name Douglasioidea for this group.

At present, Douglasiidae comprises 39 species in two genera, *Tinagma* and *Klimeschia* Amsel, 1938. *Klimeschia* (seven species) is known only from the Palaearctic, while *Tinagma* is known from the Palaearctic (23 species), Nearctic (10 species), and Australia (one species). A revision of Nearctic species was published by Gaedike (1990).

Genus TINAGMA Zeller, 1839

ID INFO: Gaedike (1990); also Harrison (2005), Gaedike (2010, 2019).

DOUGLASIA Stainton, 1854
DOUGLASSIA; Chambers, 1881 missp.

40a0001 T. obscurofasciella (Chambers, 1881) (Douglassia) 2487
crenulellum Engel, 1907 (Tinagma)

40a0002 T. pulverilinea Braun, 1921 (Tinagma) 2489
leucaspis Braun, 1926 (Tinagma) *[2486]*
NOTE: This species was synonymized with *T. pulverilinea* by Gaedike (1990). However, more recent analysis indicates that it has a distinct DNA barcode and may represent a valid species.

40a0003 T. gigantea Braun, 1921 (Tinagma) 2485

40a0004 T. brunneofasciatum Gaedike, 1990 (Tinagma) [NEW]

40a0005 T. powelli Gaedike, 1990 (Tinagma) [NEW]

40a0006 T. californicum Gaedike, 1990 (Tinagma) [NEW]

40a0007 T. gaedikei Harrison, 2005 (Tinagma) [NEW]

40a0008 T. ochremaculella (Chambers, 1875) (Phigalia) [NEW]
NOTE: This species, originally described in *Phigalia*, a synonym of *Elachista*, was omitted by Gaedike (1990). It was excluded from the Elachistidae by Braun (1948); and placed in *Tinagma* by Heppner & Duckworth (in Hodges et al. 1983).
ochreomaculella; (Dyar, 1903) (Aphigalia) missp.[2488]

40a0009 T. dryadis Staudinger, 1872 (Tinagma) H [NEW]
NOTE: Added to the NA fauna by Gaedike (2010).
dryadella Frey, 1877 (Tinagma)

40a0010 T. jalavai Gaedike, 2018 (Tinagma) H [NEW]
NOTE: Added here to the NA fauna by GRP based on a specimen collected at Grey Mountain, YT, and determined via DNA barcode and dissection (GRP).

Superfamily SCHRECKENSTEINIOIDEA Fletcher, 1929

33. Family SCHRECKENSTEINIIDAE Fletcher, 1929 (bristle-legged moths)

by Gregory R. Pohl

Bristle-legged moths are very small narrow-winged moths, with wingspans usually of 8 to 12 mm. Adults have stiff spines on the upper margin of the hind tibiae. Larvae are external feeders on various plants; pupation takes place in a mesh cocoon.

The family Schreckensteiniidae contains only eight species. Three species are known in the Nearctic region, all of which were treated by Forbes (1923).

Genus SCHRECKENSTEINIA Hübner, 1825
CHRYSOCORYS Curtis, 1833

43a0001	S. erythriella (Clemens, 1860) (Chrysocorys)		2507
43a0002	S. felicella (Walsingham, 1880) (Chrysocorys)		2508
43a0003	S. festaliella (Hübner, [1819]) (Tinea)	H	2509
	montandonella (Duponchel, 1840) (Elachista)		
	scisscella (Haworth, 1828) (Chrysocorys)		

Superfamily URODOIDEA Kyrki, 1988

34. Family URODIDAE Kyrki, 1988 (false burnet moths)

by Gregory R. Pohl

False burnet moths are small to medium-sized moths, with wingspans from 15 to 40 mm. The front margin of the male hindwing has a hair pencil, and the antennae of males are lamellate. The few known larvae of the Urodidae feed on broadleaved trees.

This small family consists of 66 described species, most of which are Neotropical. Two species live in the Nearctic region.

Genus URODUS Herrich-Schäffer, 1854
PARATIQUADRA Walsingham, 1897
TRICHOSTIBAS Zeller, 1863

45a0001 U. parvula (Edwards, 1881) (Penthetria) 2415

Genus WOCKIA Heinemann, 1870
ID INFO: Heppner (1997c), Landry (1998a).

45a0002 W. asperipunctella (Bruand, 1852) (Anacampsis) H [NEW]
funebrella Heinemann, 1870 (Wockia)

Superfamily CHOREUTOIDEA Stainton, 1858

35. Family CHOREUTIDAE Stainton, 1858 (metalmark moths)

by Jadranka Rota

Metalmark moths are very small to small moths, with wingspans of about 7 to less than 20 mm. They are diurnal and often bear metallic and/or colorful markings on their wings to which they owe their common name. Since the description of the family, choreutids had been classified in five different superfamilies, including Tortricoidea, Pyraloidea, Yponomeutoidea (as part of Glyphipterigidae), and Sesioidea, until they were finally placed in their own monotypic superfamily Choreutoidea (Minet 1991). The subfamily Millieriinae (including the NA genus *Phormoestes*) was removed from the family based on molecular phylogenetic studies in which the higher classification of Choreutidae was revised (Rota 2011; Rota & Wahlberg 2012). Recent phylogenomic studies of Lepidoptera (e.g., Kawahara et al. 2019) failed to firmly place the family within the order, but most likely it is within Apoditrysia, as also suggested by the features of the articulation of the second abdominal sternum with the metathorax (Rota & Kristensen 2011).

Larvae of most species are leaf webbers and skeletonizers, but a few species bore in inflorescences. The host plants are known for about 40% of the Nearctic species. Most choreutid species are specialists within a single plant genus, while at the generic level they are usually restricted to one plant family. For example, *Anthophila* larvae specialize on Urticaceae, *Prochoreutis* specialize on Lamiaceae, and *Tebenna* specialize on Asteraceae. *Ornarantia*, *Hemerophila*, and *Tortyra*, all three of which are represented by only one or two species in FL but are quite diverse in the Neotropical region, specialize on *Ficus* (Moraceae). *Brenthia pavonacella*, the sole Nearctic member of this otherwise large circumtropical genus (over 80 species worldwide), feeds on *Desmodium* (Fabaceae). *Caloreas* and *Choreutis* larvae are polyphagous, feeding on plants from several different families (*Caloreas*, e.g., on Asteraceae, Boraginaceae, Fabaceae; *Choreutis*, e.g., on Rosaceae, Betulaceae, Salicaceae). Pupae are encased in a broadly spindle-shaped, white, silken, multilayered cocoon that is often attached to the leaf surface or leaf axil or within the larval shelter.

Currently, approximately 430 species of Choreutidae in 25 genera are described worldwide (Rota et al. 2014; Heppner 2020, 2021b, 2022b, 2023a), most of them in the tropics, where new species are regularly discovered. Fourteen genera and 52 species are present in the Nearctic region.

Subfamily BRENTHIINAE Clemens, 1860

Genus BRENTHIA Clemens, 1860
MICROAETHIA Chambers, 1878

47a0001 B. pavonacella Clemens, 1860 (Brenthia) 2627
amphicarpeoeana (Clemens, 1878) (Microaethia)
pavonicella; Chambers, 1878 (Brenthia) missp.

Subfamily CHOREUTINAE Stainton, 1858

Genus ANTHOPHILA Haworth, 1811
ID INFO: Heppner (2011).
SIAMETHIS; Klimesch, 1968 missp.
SIMAETHIS [Leach, 1815]
SIMAETIS; Kautz, 1931 missp.
XYLOPODA Berthold, 1827
XYLOPODA Latreille, 1829
XYLOPODE Latreille, 1825

47a0002 A. plenicarinata Heppner, 2011 (Anthophila) [NEW]
NOTE: This species and *A. fabriciana* share the same DNA barcode (JFL in litt.).
47a0003 A. alpinella (Busck, 1904) (Hemerophila) 2628
47a0004 A. fabriciana (Linnaeus, 1767) (Phalaena) H [NEW]
NOTE: Holarctic; first recorded from Churchill, MB (Landry et al. 2013); additional records have recently been found in northeastern QC (JFL in litt.).
aeternalis (Frey, 1880) (Simaethis)
alternalis (Treitschke, 1829) (Asopia)
dentana (Hübner, [1796-1799]) (Tortrix)
dentanalis (Treitschke, 1829) (Asopia)
fabricii Haworth, [1811] (Anthophila)
oxyacanthae Haworth, [1811] (Anthophila)
oxyacanthella (Linnaeus, 1767) (Phalaena)
oyxacanthana (Holle, 1865) (Tortrix)
parietariae (Stainton, 1855) (Simaethis)
uriicana (Meyrick, 1914) (Simaethis)
urticana ([Denis & Schiffermüller], 1775) (Tortrix)

47a0005 A. emplecta (Turner, 1942) (Simaethis) I [NEW]
NOTE: This Australian species was found recently at several localities in southern CA. The identity was confirmed via DNA barcoding by ME. It was moved from *Choreutis* by Bippus (2020), although that taxonomic act was omitted from the abstract therein. As this checklist was going to press, Heppner (2023d) synonymized *A. emplecta* with *Choreutis sexfasciella* (Sauber, 1902) and retained it in the genus *Choreutis*. It was not possible to fully incorporate that change here.

Genus PROCHOREUTIS Diakonoff & Heppner, 1980
ID INFO: Heppner (2020).

47a0006 P. inflatella (Clemens, 1863) (Brenthia) 2629
virginella (Clemens, 1864) (Brenthia)
47a0007 P. palinura Heppner, 2020 (Prochoreutis) [NEW]

Genus PROTOCHOREUTIS Heppner, 2020
ID INFO: Heppner (2020).

47a0008 P. sororculella (Dyar, 1900) (Choreutis) 2630
47a0009 P. dyarella (Kearfott, 1902) (Choreutis) 2631

Genus NEOCHOREUTIS Heppner, 2020
ID INFO: Heppner (2020).

47a0010 N. epicharis Heppner, 2020 (Neochoreutis) [NEW]
NOTE: This species has been reported for many years as "*Choreutis myllerana* of authors, not Fabricius", in various checklists and catalogs. It was formally described by Heppner (2020), but the name has appeared on determination labels since the 1990s, sometimes spelled "*epichoris*".
myllerana of authors; (not Fabricius, 1794) (Choreutis) misappl.

Genus PSEUDOCALOREAS Heppner, 2021
ID INFO: Heppner (2021b).

47a0011 P. extrincicella (Dyar, 1900) (Choreutis) 2632
extrinsecella; (Meyrick, 1913) (Choreutis) emend.
47a0012 P. pernivalis (Braun, 1921) (Choreutis) 2633

Genus CALOREAS Heppner, 1977
ID INFO: Heppner (2022b).

Caloreas coloradella group Heppner, 2022

47a0013 C. apocynoglossa (Heppner, 1976) (Choreutis) 2634
47a0014 C. occidentella (Dyar, 1900) (Choreutis) 2635
47a0015 C. molpastes Heppner, 2022 (Caloreas) [NEW]
47a0016 C. canadensis Heppner, 2022 (Caloreas) [NEW]
47a0017 C. coloradella (Dyar, 1900) (Choreutis) 2636
47a0018 C. cyanorites Heppner, 2022 (Caloreas) [NEW]
47a0019 C. hyperboreas Heppner, 2022 (Caloreas) [NEW]
47a0020 C. mertensiae Heppner, 2022 (Caloreas) [NEW]
47a0021 C. montanae Heppner, 2022 (Caloreas) [NEW]
47a0022 C. virescens Heppner, 2022 (Caloreas) [NEW]
47a0023 C. clarkei Heppner, 2022 (Caloreas) [NEW]

Caloreas caliginosella group Heppner, 2022

47a0024 C. maritima Heppner, 2022 (Caloreas) [NEW]
47a0025 C. caliginosa (Braun, 1921) (Choreutis) 2637
47a0026 C. elachia Heppner, 2022 (Caloreas) [NEW]

Caloreas schausiella group Heppner, 2022

47a0027 C. schausiella (Busck, 1907) (Choreutis) 2638

Genus NEOCALOREAS Heppner, 2022
ID INFO: Heppner (2022b).

Neocaloreas augustella group Heppner, 2022

47a0028 N. japygia Heppner, 2022 (Neocaloreas) [NEW]
47a0029 N. augustella (Clarke, 1933) (Choreutis) 2639

Neocaloreas leucobasis group Heppner, 2022

47a0030 N. multimarginata (Braun, 1925) (Choreutis) 2640
47a0031 N. melanifera (Keifer, 1937) (Choreutis) [NEW]
47a0032 N. leucobasis (Fernald, 1900) (Choreutis) 2641
NOTE: Attribution of the authorship of *leucobasis* to Dyar by Heppner (in Hodges et al. 1983) was in error. Dyar's name is a nomen nudum. Dyar referred to a manuscript name of Fernald's in a key published in March 1900; the description was published by Fernald in August 1900.
leucobasis (Dyar, 1900) (Choreutis) nom. nud.

Genus PSEUDOTEBENNA Heppner, 2023
ID INFO: Heppner (2023a).

47a0033 P. carduiella (Kearfott, 1902) (Choreutis) 2649
busckiella (Kearfott, 1902) (Choreutis)
carduella; (Meyrick, 1913) (Choreutis) emend.

Genus TEBENNA Billberg, 1820
ID INFO: Heppner (2023a).
PORPE Hübner, 1825
TEBEUNA; Danilevsky, 1969 missp.

Tebenna silphiella group Heppner, 2023

47a0034 T. silphiella (Grote, 1881) (Choreutes [sic]) 2642

Tebenna balsamorrhizella group Heppner, 2023

47a0035 T. chrysobalia Heppner, 2023 (Tebenna) [NEW]
47a0036 T. balsamorrhizella (Busck, 1904) (Choreutis) 2643
47a0037 T. mimetica Heppner, 2023 (Tebenna) [NEW]

Tebenna gemmalis group Heppner, 2023

47a0038 T. piperella (Busck, 1904) (Choreutis) 2646
47a0039 T. gemmalis (Hulst, 1886) (Chalcoela) 2644
47a0040 T. hesperia Heppner, 2023 (Tebenna) [NEW]
47a0041 T. immutabilis (Braun, 1927) (Choreutis) 2645
47a0042 T. xeronastes Heppner, 2023 (Tebenna) [NEW]
47a0043 T. saltator Heppner, 2023 (Tebenna) [NEW]

Tebenna onustana group Heppner, 2023

47a0044 T. gnaphaliella (Kearfott, 1902) (Choreutis) 2647
gnaphiella; (Mosher, 1916) (Choreutis) missp.
47a0045 T. onustana (Walker, 1864) (Simaethis) 2648
ohiensis (Zeller, 1876) (Choreutis)
ohioensis; (Kearfott, 1902) (Choreutis) missp.

Genus CHOREUTIS Hübner, 1825
ALLONOMYIA; Ferguson, 1975 missp.
ALLONONYMA Busck, 1904
ALLONYMA; Fracker, 1915 missp.
CHLOREUTIS; Viette, 1947 missp.
CHOREUTHIS; Hackman, 1947 missp.
CHOREUTIDIA Sauber, 1902
CLOREUTIS; Kautz, 1931 missp.
ENTOMOLOMA Ragonot, 1875
EUTROMULA Frölich, 1828
HEMEROPHILA Fernald, 1900
HEMEROPHILA Hübner, 1806
MACROPIA Costa, 1836
ORCHEMIA Fernald, 1900

47a0046 C. pariana (Clerck, 1759) (Phalaena) I 2650
NOTE: Introduced from Eurasia, first found in NA in NY in 1917, and in BC in 1937 (Doğanlar & Bierne 1981).
lutosa (Haworth, [1811]) (Anthophila)
parialis (Treitschke, 1829) (Asopia)
parina; (Procter, 1946) (Anthophila) missp.
47a0047 C. diana (Hübner, [1822]) (Tortrix) H 2651
decorana (Zetterstedt, 1839) (Coccyx)
luridana (Walker, 1863) (Amphisa)
vicarialis (Zeller, 1876) (Simaethis)
vicarilis; (Dyar, 1900) (Simaethis) missp.
47a0048 C. betuliperda (Dyar, 1902) (Orchemia) 2652

Genus TORTYRA Walker, 1863
ID INFO: Heppner (1991b).
CHOREGIA Felder & Rogenhofer, 1875
CHOREGIA Zeller, 1877

47a0049 T. slossonia (Fernald, 1900) (Walsinghamia) 2653
47a0050 T. iocyaneus Heppner, 1991 (Tortyra) [NEW]

Genus HEMEROPHILA Hübner, 1817
ID INFO: Heppner (1991c).
GAURIS Hübner, 1821
GUARIS; Fernald, 1900 missp.
WALSINGHAMIA Riley, 1889

47a0051 H. diva (Riley, 1889) (Walsinghamia) 2655

Genus ORNARANTIA Rota, 2012
ID INFO: Heppner (1991c).

47a0052 O. dyari (Busck, [1901] 1900) (Hemerophila) 2654

Superfamily GALACTICOIDEA Minet, 1986

36. Family GALACTICIDAE Minet, 1986

by Gregory R. Pohl

Galacticids are very small moths, with wingspans from 10 to 20 mm, relatively broad wings, and short maxillary palps. The larvae feed gregariously.

This recently recognized family originated in the Old World. The group is in need of work and its composition has not been settled. The family was placed in the Tineoidea until recently. Currently, the family contains 19 species, and one of these, the Mimosa Webworm (*Homadaula anisocentra*), has been introduced to NA.

Genus HOMADAULA Lower, 1899

HAMADAULA; Moriuti, 1977 missp.
PARAPRAYS Rebel, 1910
STICHOTACTIS Meyrick, 1930

49a0001 H. anisocentra Meyrick, 1922 (Homadaula) I 2353
NOTE: Introduced from Eurasia to CA (Dugdale et al. 1999).
albizziae Clarke, 1943 (Homadaula)
usuguronis Matsumura, 1931 (Homadaula)

Superfamily TORTRICOIDEA Latreille, [1802]

37. Family TORTRICIDAE Latreille, [1802] (bell moths and leafroller moths)

by Todd M. Gilligan & John W. Brown

The superfamily Tortricoidea comprises the single family Tortricidae, the largest family of microlepidoptera, with more than 11,400 described species in 1,170 genera (Gilligan et al. 2018). Adults are primarily small moths (wingspans up to 35 mm) and can be recognized by a combination of morphological characters, including well-developed ocelli (reduced in a few genera) and chaetosema above the compound eye, an unscaled haustellum, and porrect labial palpi (or rarely upturned) (Horak 1991). The structure of the flat ovipositor lobes in the female genitalia, the presence of a dorsal "saddle" on the ninth abdominal segment of the larvae, and the distinctive anal fork of the larvae unite the family (Horak & Brown 1991; Powell & Brown 2012). Tortricids are distributed worldwide, with the greatest species diversity in the Neotropics (Regier et al. 2012b). The larvae are commonly known as "leafrollers", although many species are internal feeders, boring into the roots, stems, and fruits of their hosts. A large number of tortricids are economically important pests of ornamental, forest, and crop plants, and the overall percentage of pest species is high in comparison to that of other superfamilies, especially in the Archipini and Grapholitini.

Recent molecular studies have resulted in a fairly robust phylogeny for the family at the tribal level (Regier et al. 2012b; Fagua et al. 2016). The family is currently divided into three subfamilies: Tortricinae, Olethreutinae, and Chlidanotinae. Although the monophyly of Tortricinae and Olethreutinae are well supported by both molecular and morphological data, the smallest subfamily, Chlidanotinae, which is sister to Tortricinae + Olethreutinae, appears to be paraphyletic (Regier et al. 2012b; Fagua et al. 2016). Within Tortricinae, larvae of Archipini, Sparganothini, and Atteriini are mostly polyphagous, with females laying large clusters of eggs. The larvae of most members of Olethreutinae are considerably more particular in food plant choice, with many host specialists. A comprehensive world catalog of Tortricidae was compiled by Brown (2005), and it is now hosted online and updated on a regular basis (Gilligan et al. 2018).

In the Nearctic Region, there are 1,440 described species of Tortricidae (including two extirpated species) in 148 genera, which places the family among the top three in species richness in NA along with Noctuidae and Geometridae. Although there has been considerable effort to describe the tortricid fauna of NA starting with Clemens in the mid-1800s, there has never been a comprehensive treatment of the entire family. The first "modern" taxonomic revision was undertaken by Heinrich (1923, 1926) but included only the Olethreutinae. Twentieth century treatments of the Tortricinae include the Archipini (Freeman 1958), Tortricini (Obraztsov 1963b; Razowski 1966), Canadian Cochylina (Razowski 1997), and the CA fauna (Powell 1964). These, along with other genus-level revisions (e.g., Miller 1978a; Powell & Miller 1978; Powell 1980) and regional treatments (e.g., Forbes 1923), formed the basis for the previous checklist (Powell, in: Hodges et al. 1983) which included a total of 1,162 tortricid species.

Beyond the recognition of 277 additional species in NA, there have been a number of significant taxonomic updates to the Nearctic Tortricidae since Powell (in Hodges et al. 1983). Regier et al. (2012b) and Fagua et al. (2016) revised the classification of the family at the tribal level. Important tribal or genus-level revisions and/or updated checklists include *Dorithia* and *Anopina* (Brown & Powell 1991, 2000), Cochylina (Metzler & Brown 2014; Brown 2019a, b), Sparganothini and Atteriini (Powell & Brown 2012), *Eucosma* (Wright & Gilligan 2015), and *Pelochrista* (Wright & Gilligan 2017). Regional works by Miller (1987) and Gilligan et al. (2008) treat the Olethreutinae of the Midwestern USA, comprising a large portion of the NA fauna. Recent genus-level revisions, such as that of *Paralobesia* (Royals et al. 2019), incorporate molecular data to resolve difficult taxonomic issues, and Gilligan et al. (2020a) similarly used DNA barcode data to examine the status of many Holarctic and introduced taxa.

Subfamily TORTRICINAE Latreille, [1802]

Tribe TORTRICINI Latreille, [1802]

Genus ACLERIS Hübner, 1825

ID INFO: Razowski (1966, 2008); also Sabourin et al. (1997), Heppner (2015).

ACTERIS; Diakonoff, 1939 missp.
ALCERIS; Fernald, 1903 missp.
ARGROTOXA Pierce & Metcalfe, 1922
ARGYROTOXA Agassiz, 1848
ARGYROTOZA Stephens, 1829
CHEIMATOPHILA Stephens, 1829
CHROESIA; Swatschek, 1958 missp.
CROEESIA; Fernald, 1908 missp.
CROESES; Diakonoff, 1960 missp.
CROESIA Hübner, 1825
ECLECTIS Hübner, 1825
ERGASIA Issiki & Stringer, 1932
FERONEA; Benander, 1934 missp.
GLYPHIPTERA Duponchel, 1834
GLYPHISIA Stephens, 1829
LEPTOGRAMMA Stephens, 1829
LOPAS Hübner, 1825
OXIGRAPHA Hübner, 1825

OXYGRAPHA Agassiz, 1848
PERONAEA; Sherborn, 1929 missp.
PERONEA Curtis, 1824
PHLOIOPHILA Duponchel, 1834
PHYLACOPHORA Filipjev, 1931
RHACODIA Hübner, 1825
TELEIA Hübner, 1825
TERAS Treitschke, 1829

51a0001 A. forsskaleana (Linnaeus, 1758) (Phalaena) I [NEW]
NOTE: Introduced from Europe (Klots 1941); confirmed via DNA barcodes by Gilligan et al. (2020a).
agraphana (Klemensiewicz, 1904) (Tortrix)
forskaleana; Powell, 1983 (Acleris) missp. *[3501]*

51a0002 A. albicomana (Clemens, 1865) (Xanthosetia) 3502
bergmanniana of authors; (not Linnaeus, 1758) (Phalaena) misappl.
NOTE: Old World name historically applied to *A. albicomana* in NA by Forbes (1923) and others.

51a0003 A. semipurpurana (Kearfott, 1905) (Argyrotoxa) 3503
dorsipurpurana (Kearfott, 1907) (Tortrix)

51a0004 A. curvalana (Kearfott, 1907) (Tortrix) 3504

51a0005 A. holmiana (Linnaeus, 1758) (Phalaena) I 3505
NOTE: Introduced from Eurasia, first found in BC in 1977 (Mutuura & Munroe 1978); confirmed with DNA barcode data by Gilligan et al. (2020a).
schreberiana (Westwood & Humphreys, 1845) (Lozotaenia)

51a0006 A. macdunnoughi Obraztsov, 1963 (Acleris) 3506
latifasciata of authors; (not Haworth, [1811]) (Tortrix) misappl.
NOTE: An Old World name (now a synonym of the European species *Syricoris aurofasciana* (Haworth, [1811])) that has been used historically in NA.

51a0007 A. comariana (Zeller, 1846) (Teras) I 3507
NOTE: Introduced from Europe, first found in BC in 1972 (Cram 1973); DNA barcode data indicate that populations in eastern NA are a different species (Gilligan et al. 2020a).
baracola (Matsumura, 1931) (Acalla)
latifasciana (Sheldon, 1925) (Peronea)
meincki (Amsel, 1930) (Acalla)

51a0008 A. caliginosana (Walker, 1863) (Teras) 3508

51a0009 A. ptychogrammos (Zeller, 1876) (Teras) 3509

51a0010 A. nivisellana (Walsingham, 1879) (Tortrix) 3510

51a0011 A. rhombana ([Denis & Schiffermüller], 1775) (Tortrix) I 3511
NOTE: This species is introduced or not discovered in NA until the mid-1950s (Gilligan et al. 2020a); its presence here was confirmed with DNA barcode data.
centrana (Fabricius, 1794) (Pyralis)
ciliana (Hübner, [1796-1799]) (Tortrix)
contaminana (Hübner, [1796-1799]) (Tortrix)
dimidiana (Frölich, 1828) (Tortrix)
obscurana (Donovan, [1806]) (Phalaena)
reticulana (Ström, 1783) (Phalaena)

51a0012 A. caryosphena (Meyrick, 1937) (Peronea) 3513
NOTE: This species is closely related to the Palaearctic *A. notana*, and it has been listed in NA under that name as well as the *notana* synonyms *ferrugana* and *tripunctana*. We follow Karsholt et al. (2015) and treat the NA (including GR) populations as distinct from *A. notana*. Powell (in Hodges et al. 1983) listed *caryosphena* as well as *notana* (as *tripunctana*). Gilligan et al. (2020a) were not able to secure DNA, to determine the status of "*A. notana*" in NA. *Acleris caryosphena* has also been confused with *A. arcticana*, stemming from Meyrick's incorrect assumption about the hostplant in the original description. Meyrick described *caryosphena* from specimens collected among *Betula* spp. (Betulaceae) and *Salix* spp. (Salicaceae), and wrote "probably allied to *hastiana* and feeding on *Salix*". That was incorrect, as *A. caryosphena* is a *Betula*-feeder, but it led future workers (including Brown 2005 and Pohl & Dombroskie, in: Pohl et al. 2018) to confuse it with the *Salix*-feeding *A. arcticana*.
ferrugana of authors; (not [Denis & Schiffermüller], 1775) (Tortrix) misappl.
notana of authors; (not Donovan, [1806]) (Tortrix) misappl.
tripunctana of authors; (not Hübner, [1799]) (Tortrix) misappl. *[3512]*

51a0013 A. cervinana (Fernald, 1882) (Teras) 3514
americana (Fernald, 1903) (Teras)

51a0014 A. santacrucis Obraztsov, 1963 (Acleris) 3515

51a0015 A. comandrana (Fernald, 1892) (Teras) 3516

51a0016 A. subnivana (Walker, 1863) (Penthina) 3517
deflectana (Robinson, 1869) (Teras)
peculiana (Zeller, 1876) (Teras)

51a0017 A. braunana (McDunnough, 1934) (Peronea) 3518

51a0018 A. kearfottana (McDunnough, 1934) (Peronea) 3519

51a0019.1 A. obtusana (Eversmann, 1844) (Teras) extralim. H [NEW]
NOTE: Kyrki (1982) relegated *fuscana* to a subspecies of the otherwise Palaearctic *A. obtusana*. However, this was overlooked by Brown (2005) and recent Nearctic catalogs. Pohl et al. (2004) confused *A. obtusana* with *A. obligatoria*, an Asian species, and erroneously used the latter name.
ssp. a. fuscana (Barnes & Busck, 1920) (Peronea) [3520]
obligatoria of authors; not Park & Razowski, 1991 (Acleris) misappl.

51a0020 A. semiannula (Robinson, 1869) (Teras) 3521

51a0021 A. stadiana (Barnes & Busck, 1920) (Peronea) [NEW]
NOTE: Raised from synonym of *A. semiannula* by Sabourin et al. (1997).

51a0022 A. implexana (Walker, 1863) (Sciaphila) H 3522
NOTE: The synonyms of *A. implexana* are wrong in Gilligan et al. (2018); the taxa *gallicola*, *gallicolana*, *heindelana*, and *heindeliana* remain synonyms of *A. implexana*.
ssp. a. implexana (Walker, 1863) (Sciaphila)
gallicola; Prentice, 1965 (Acleris) missp.
gallicolana (Clemens, 1864) (Peronea)
heindelana (Fernald, 1905) (Peronea)
heindeliana; (Forbes, 1923) (Peronea) missp.
ssp. b. ferrumixtana (Benander, 1934) (Acalla) REV. STAT.; (excl.)
NOTE: Gilligan et al. (2020a) considered *A. implexana* to be Nearctic only and raised the Palaearctic subspecies *ferrumixtana* to species. However, that analysis was based on misidentified specimens, and herein we return *ferrumixtana* to subspecies (rev. stat.). Contrary to Gilligan et al. (2020a), it is not known to occur in NA.

51a0023 A. cornana (McDunnough, 1933) (Peronea) 3523

51a0024 A. simpliciana (Walsingham, 1879) (Teras) 3524

51a0025 A. forbesana (McDunnough, 1934) (Peronea) 3525

51a0026 A. negundana (Busck, 1940) (Peronea) 3526

51a0027.1 A. viburnana (Clemens, 1860) (Peronea) [NEW]
NOTE: This taxon has been treated as a subspecies of *A. schalleriana*, but Gilligan et al. (2020a) raised it to full species status, distinct from the Palaearctic *A. schalleriana*. Thus, historical NA records of *A. schalleriana* (and its synonym *violaceana*) refer to *A. viburnana*.
famula (Zeller, 1876) (Teras)
schalleriana of authors; (not Linnaeus, 1761) (Phalaena) misappl. *[3527]*
violaceana of authors; (not Guenée, 1845) (Teras) misappl.

51a0028 A. okanagana (McDunnough, 1940) (Peronea) 3528
acanagana; Brown, 2005 (Acleris) missp.
ocanagana; Razowski, 1966 (Acleris) emend.

51a0029 A. oxycoccana (Packard, 1869) (Tortrix) 3529

51a0030 A. variegana ([Denis & Schiffermüller], 1775) (Tortrix) I 3530
NOTE: Introduced from Eurasia, first detected in NA in BC in 1920 (Gillespie & Gillespie 1982); confirmed via DNA barcode data by Gilligan et al. (2020a).
albana (Humphreys & Westwood, 1845) (Peronea)
asperana (Fabricius, 1777) (Pyralis)
blandiana (Charpentier, 1821) (Tortrix)
cirrana (Curtis, 1834) (Peronea)
costimaculana (Stephens, 1834) (Peronea)
insignata (Herrich-Schäffer, 1851) (Tortrix)
nyctemerana (Hübner, [1814-1817]) (Tortrix)
osbeckiana (Thunberg & Borgström, 1784) (Tortrix)

51a0030.1 A. albinivia Heppner, 2015 (Acleris) [NEW]
albinvia Brown, 2017 (Acleris)

51a0031.1 A. pulverosana (Walker, 1863) (Teras) [NEW]
NOTE: Gilligan et al. (2020a) found that DNA barcode data convincingly separate European and NA specimens identified as *A. hastiana*; they elevated the Nearctic synonym *pulverosana* to apply to NA populations.
hastiana of authors; (not Linnaeus, 1758) (Phalaena) misappl. *[3531]*

51a0032 A. fragariana Kearfott, 1904 (Acleris) 3532
permutana of authors; (not Duponchel, 1836) (Glyphiptera) misappl.

51a0033 A. celiana (Robinson, 1869) (Teras) 3533
albilineana Kearfott, 1907 (Acleris)

51a0034 A. arcticana (Guenée, 1845) (Teras) H [NEW]
NOTE: Gilligan et al. (2020a) confirmed via DNA barcode data that this species is Holarctic. *Acleris caryosphena* has been erroneously associated with this species; see note under the former.
boreana Wolff, 1964 (Acleris)
caryosphena of authors; (not Meyrick, 1937) (Peronea) misid.
walkerana (McDunnough, 1934) (Peronea) *[3534]*

51a0035 A. keiferi Powell, 1964 (Acleris) 3535

51a0036 A. robinsoniana (Forbes, 1923) (Peronea) 3536
clemensiana (Forbes, 1923) (Peronea)

51a0037 A. britannia Kearfott, 1904 (Acleris) 3537

51a0038 A. klotsi Obraztsov, 1963 (Acleris) 3538
51a0039 A. chalybeana (Fernald, 1882) (Teras) 3539
51a0041 A. placidana (Robinson, 1869) (Teras) [NEW]
NOTE: Gilligan et al. (2020a) used DNA barcode data to confirm that the European A. logiana is a different taxon from the NA subspecies *placidana*, and they elevated *placidana* to species; this arrangement was partially reflected in Gilligan et al. (2018) based on a mistake in indicating *placidana* was a subspecies. Forbes (1923) used the European name *niveana* for this species.
logiana of authors; (not Clerck, 1759) (Phalaena) misappl. *[3540]*
niveana of authors; (not Fabricius, 1787) (Pyralis) misappl.
trisignana (Robinson, 1869) (Teras)
51a0042 A. senescens (Zeller, 1874) (Teras) 3541
51a0043 A. flavivittana (Clemens, 1864) (Peronea) 3542
perspicuana (Robinson, 1869) (Teras)
51a0044 A. maculidorsana (Clemens, 1864) (Cnephasia) 3543
hypericana (Ely, 1910) (Peronea)
51a0045 A. clarkei Obraztsov, 1963 (Acleris) 3544
51a0046 A. minuta (Robinson, 1869) (Tortrix) 3545
cinderella (Riley, 1872) (Tortrix)
malivorana (Le Baron, 1871) (Tortrix)
vacciniivorana (Packard, 1870) (Tortrix)
variolana (Zeller, 1876) (Teras)
51a0047 A. paracinderella Powell, 1964 (Acleris) 3546
51a0048 A. gloveranus (Walsingham, 1879) (Lophoderus) 3547
51a0049 A. variana (Fernald, 1886) (Teras) 3548
angusana (Fernald, 1892) (Peronea)
51a0050 A. maccana (Treitschke, 1835) (Teras) H 3549
basalticola (Staudinger, 1857) (Teras)
canescana (Sheldon, 1930) (Peronea)
fishiana (Fernald, 1882) (Teras)
leporinana (Zetterstedt, 1839) (Teras)
marmorana (Curtis, 1835) (Peronea)
repandana (Werneburg, 1864) (Tortrix)
suffusana (Sheldon, 1930) (Peronea)
torquana (Zetterstedt, 1839) (Teras)
51a0051 A. youngana (McDunnough, 1934) (Peronea) 3550
51a0052 A. inana (Robinson, 1869) (Teras) 3551
51a0053 A. scabrana ([Denis & Schiffermüller], 1775) (Tortrix) H 3552
elevana (Fabricius, 1787) (Pyralis)
griseus (Hauder, 1912) (Acalla)
insulana (Krulikovsky, 1903) (Acalla)
nigrobasis (Hauder, 1912) (Acalla)
pernix (Müller-Rutz, 1924) (Acalla)
pseudocoronana Obraztsov, 1956 (Acleris)
psorana (Frölich, 1828) (Tortrix)
radiana Obraztsov, 1956 (Acleris)
51a0054 A. bowmanana (McDunnough, 1934) (Peronea) 3553
51a0055 A. aenigmana Powell, 1964 (Acleris) 3554
51a0056 A. nigrolinea (Robinson, 1869) (Teras) 3556
51a0056.1 A. disputabilis Obraztsov, 1963 (Acleris) [NEW]
NOTE: Historically the status of the species now recognized as *A. disputabilis* has been in dispute, and this is complicated by the fact that the type of *ferruginiguttana* is severely damaged. Obraztsov (1963b) described *disputabilis*, essentially as a replacement name for McDunnough's (1934) usage of the name *ferruginiguttana*, as a form of *A. nigrolinea*. Obraztsov makes clear that these do not exactly fit the original description of *ferruginiguttana*. Powell (1964) and Powell (in Hodges et al. 1983) had a broader concept of *nigrolinea*, and treated *disputabilis* and *ferruginiguttana* as synonyms of it. However, Powell & Opler (2009) follow Razowski (1966) and recognize *A. disputabilis* as distinct from *A. nigrolinea*; we tentatively follow the latter treatment here. Further work is warranted, as considerable DNA barcode variation is present in this group.
ferruginiguttana of authors; (not Fernald, 1882) (Teras) misappl.
51a0056.2e A. ferruginiguttana (Fernald, 1882) (Teras) EXCL.; nom. dub. [NEW]
NOTE: This species is known only from the type, a severely damaged female that cannot be reliably associated with any particular biological species. The description does not fit later usage of the name *ferruginiguttana*; see note under *A. disputabilis* above.
51a0057 A. maximana (Barnes & Busck, 1920) (Peronea) 3557
51a0058 A. busckana (McDunnough, 1934) (Peronea) 3558
51a0059 A. effractana (Hübner, 1822) (Tortrix) H [NEW]
NOTE: Nearctic specimens have been historically identified as *A. emargana*. However, Karsholt et al. (2005) determined that NA populations are *A. effractana*, which also occurs in the Palaearctic, and that *A. emargana* is a separate Palaearctic species; Gilligan et al. (2020a) confirmed this arrangement.
blackmorei Obraztsov, 1963 (Acleris)
brunneostriana (Weber, 1945) (Acalla)
caudana (Fabricius, 1775) (Pyralis)
emargana of authors; (not Fabricius, 1775) (Tortrix) misappl. *[3559]*
excavana (Donovan, 1794) (Tortrix)
fasciana (Müller-Rutz, 1927) (Acalla)
fuscana (Sheldon, 1930) (Rhacodia)
griseana (Sheldon, 1930) (Rhacodia)
ochracea (Stephens, 1834) (Glyphisia)
tibetica Razowski, 1964 (Acleris)
51a0060 A. foliana (Walsingham, 1879) (Teras) 3560
51a0061 A. hudsoniana (Walker, 1863) (Teras) 3561
brewsteriana (Robinson, 1869) (Teras)
51a0062 A. incognita Obraztsov, 1963 (Acleris) 3562
51a0063 A. capizziana Obraztsov, 1963 (Acleris) 3563
lipsiana of authors; (not [Denis & Schiffermüller], 1775) (Tortrix) misappl. *[3555]*
NOTE: Specimens of *lipsiana* from Europe and *capizziana* from NA are placed in a single BIN in BOLD. However, they are separated into different clusters, and specimens in the USNM of the two taxa look different (Gilligan et al. 2020a), so they are retained as separate taxa here (with "true" *A. lipsiana* restricted to the Old World). Pohl & Dombroskie (in Pohl et al. 2018) indicated that NA records of *lipsiana* refer to *A. inana*; however, these have now been corrected to *A. capizziana*.

Genus APOTOFORMA Busck, 1934
ID INFO: Razowski (1966).
EMERALDA Diakonoff, 1960

51a0064 A. rotundipennis (Walsingham, 1897) (Oxygrapha) 3564

Tribe CNEPHASIINI Stainton, [1858]

Genus CNEPHASIA Curtis, 1828
ID INFO: Mutuura (1982).
ANOPLOCNEPHASIA Réal, 1953
BRACHYCNEPHASIA Réal, 1953
CHEPHASIA; Razowski, 1977 missp.
CNEPHASIANELLA Benander, 1950
CNEPHASIELLA Adamczewski, 1936
HYPOSTEPHANUNCIA Réal, 1951
HYPOSTEPHANUNTIA Razowski, 1977
SCIAPHIA Treitschke, 1829
SPHALEROPTERA Guenée, 1845

51a0065 C. longana (Haworth, 1811) (Tortrix) I 3566
NOTE: Introduced from Europe, first found in OR in 1929 (Powell 1964); Gilligan et al. (2020a) were unable to confirm with DNA because it appears that other *Cnephasia* species have similar DNA barcodes.
capillana (Guenée, 1845) (Sphaleroptera)
egenana (Haworth, 1811) (Tortrix)
expallidana (Haworth, 1811) (Tortrix)
gratana (de la Harpe, 1860) (Sciaphila)
ictericana (Haworth, 1811) (Tortrix)
insoletana (Herrich-Schäffer, 1851) (Tortrix)
loeviana (Zeller, 1847) (Sciaphila)
luridalbana (Herrich-Schäffer, 1851) (Tortrix)
lutosana (Hübner, [1811-1813]) (Tortrix)
ongana Meyrick, in: Wagner, 1912 (Cnephasia)
stratana (Zeller, 1847) (Sciaphila)
51a0066 C. asseclana ([Denis & Schiffermüller], 1775) (Tortrix) I [NEW]
NOTE: Introduced from Europe, first found in NL in 1915 (Mutuura 1982); confirmed with DNA barcode data by Gilligan et al. (2020a). Nearctic populations were referred to as *C. interjectana* in the past.
confluens Réal, 1952 (Cnephasia)
interjectana (Haworth, 1811) (Tortrix) *[3567]*
latior Réal, 1953 (Cnephasia)
mediocris Réal, 1953 (Cnephasia)
oberaceana; Mutuura, 1982 (Cnephasia) missp.
oleraceana (Gibson, 1916) (Tortrix)
vigaurenana Bentinck, 1936 (Cnephasia)
virgaureana (Treitschke, 1835) (Sciaphila)
51a0067 C. stephensiana (Doubleday, 1849) (Sciaphila) I [NEW]
NOTE: Introduced from Europe (Mutuura 1982); confirmed with DNA barcode data by Gilligan et al. (2020a).
anatolica Obraztsov, 1950 (Cnephasia)
atlantis Filipjev, 1934 (Cnephasia)
atlantis Filipjev, 1935 (Cnephasia)
cinereipalpana Razowski, 1958 (Cnephasia)
hispanica Obraztsov, 1950 (Cnephasia)
kurentsovi Filipjev, 1962 (Cnephasia)
octomaculana Curtis, 1826 (Cnephasia)

octomaculana Curtis, 1829 (Cnephasia)
octomaculana Curtis, 1850 (Cnephasia)
perplexana Stephens, 1852 (Cnephasia)
stolidana (Walker, 1863) (Sciaphila)
uniformana Caradja, 1916 (Cnephasia)
wilkinsoni Réal, 1952 (Cnephasia)

Genus EANA Billberg, 1820
ID INFO: Obraztsov (1963a).
ABLABIA Hübner, 1825
ARGYROPTERA Duponchel, 1834
EUTRACHIA Hübner, 1822
NEPHODESME Hübner, 1825
OPOROPSAMMA Gozmány, 1954
SUBEANA Obraztsov, [1963] 1962

51a0068 E. argentana of authors; (not Clerck, 1759) (Phalaena) MISAPPL. 3568
NOTE: Using DNA barcode data, Gilligan et al. (2020a) found that *E. argentana* is restricted to the Palaearctic, and that the populations in NA previously referred to that species represent one or more cryptic species that have yet to be described. They are listed here under the name *argentana* pending taxonomic work. No synonyms of *argentana* apply to NA populations.
51a0069 E. georgiella (Hulst, 1887) (Myelois) 3569
subargentana Obraztsov, [1963] 1962 (Eana)
51a0070.1 E. niveosana (Packard, 1867) (Phalaena) REV. STAT. 3571
NOTE: Using DNA barcode data, Gilligan et al. (2020a) found that *E. osseana* is restricted to the Old World, and that NA populations likely comprise several different unrecognized taxa, one of which appears to be Holarctic. We raise the Nearctic taxon *niveosana* to species status here (rev. stat.), as a placeholder for all Nearctic populations, which may in fact represent more than one species. Further taxonomic work is required on this group.
osseana of authors; (not Scopoli, 1763) (Phalaena) misappl. [3570]
51a0071 E. idahoensis Obraztsov, [1963] 1962 (Eana) 3572

Genus DECODES Obraztsov, 1961
ID INFO: Powell (1980); also Powell & Brown (1998).

51a0072 D. basiplagana (Walsingham, 1879) (Sciaphila) 3573
51a0073 D. fragariana (Busck, 1919) (Tortricodes) 3574
elapsa (Meyrick, 1922) (Peronea)
51a0074 D. montanus Powell, 1961 (Decodes) 3575
51a0075 D. lundgreni Powell, 1965 (Decodes) 3576
51a0076 D. catherinae Powell, 1980 (Decodes) [NEW]
51a0077 D. macswaini Powell, 1980 (Decodes) [NEW]
51a0078 D. stevensi Powell, 1980 (Decodes) [NEW]
51a0079 D. bicolor Powell, 1961 (Decodes) 3577
51a0080 D. johnstoni Powell, 1961 (Decodes) 3578
51a0081 D. aneuretus Powell, 1961 (Decodes) 3579
51a0082 D. helix Powell & Brown, 1998 (Decodes) [NEW]
51a0083 D. tonto Powell, 1980 (Decodes) [NEW]
51a0084 D. horariana (Walsingham, 1879) (Sciaphila) 3580
51a0085 D. macdunnoughi Powell, 1980 (Decodes) [NEW]
51a0086 D. tahoense Powell, 1980 (Decodes) [NEW]
51a0087 D. asapheus Powell, 1980 (Decodes) [NEW]
51a0088 D. opleri Powell, 1980 (Decodes) [NEW]

Tribe COCHYLINI Guenée, 1845

Subtribe COCHYLINA Guenée, 1845
ID INFO (partial): Razowski (1997).

Genus AGAPETA Hübner, 1822
APAPETA; Razowski, 1977 missp.
EUXANTHIS Hübner, [1825]
XANTHOSETIA Stephens, 1829

51a0089.1 A. zoegana (Linnaeus, 1767) (Phalaena) I [NEW]
NOTE: Introduced from Europe into NA as a biocontrol agent of *Centaurea* spp. (Asteraceae) (Story 1985; Story et al. 1991; Weeden et al. 2002).
brunneucycla Razowski, 1961 (Agapeta)
ferrugana (Haworth, 1811) (Tortrix)

Genus EUGNOSTA Hübner, [1825]
ID INFO (partial): Metzler & Forbes (2012).
ARGYROLEPIA Stephens, 1829
CAROLELLA Busck, 1939
PHARMACIS Hübner, 1823
SAFRA Walker, 1863

51a0090.1E E. argyroplaca (Meyrick, 1931) (Euxanthis) EXCL. [NEW]
NOTE: This species is incorrectly recorded from NA; it is Palaearctic only (Brown 2017). The TL was listed as "Usgent, AZ" but "Usgent, Turkestan" is most likely correct.
argyoplaca; (Powell, 1983) (Carolella) missp.; (excl.) [3788]
51a0091.1 E. beevorana (Comstock, 1940) (Carolella) 3789
51a0092.1 E. bimaculana (Robinson, 1869) (Conchylis) 3783
51a0093.1 E. brownana Metzler & Forbes, 2012 (Eugnosta) [NEW]
51a0094.1 E. busckana (Comstock, 1939) (Carolella) 3790
51a0095.1E E. californica (Razowski, 1986) (Carolella) EXCL. [NEW]
NOTE: Described from Baja California, Mexico. Among the large number of specimens of *Eugnosta* we have examined, no USA or Canadian specimens match Razowski's description and/or illustrations (Gilligan et al. 2020a).
51a0096.1E E. chemsakiana (Razowski, 1986) (Carolella) EXCL. [NEW]
NOTE: Described from Durango, Mexico. Among the large number of specimens of *Eugnosta* we have examined, no USA or Canadian specimens match Razowski's description and/or illustrations (Gilligan et al. 2020a).
51a0097.1 E. deceptana (Busck, 1907) (Pharmacis) 3785
51a0098.1 E. erigeronana (Riley, 1881) (Conchylis) 3784
51a0099.1 E. mexicana (Busck, 1907) (Pharmacis) 3786
51a0100.1 E. sartana (Hübner, 1823) (Pharmacis) 3782
51a0101.1 E. willettana (Comstock, 1939) (Carolella) 3791

Genus HONCA Pogue, in: Brown, 2019
ID INFO: Brown (2019a).

51a0102.1 H. grandis (Busck, 1907) (Phalonia) 3826

Genus PHTHEOCHROA Stephens, 1829
ARCE Joannis, 1919
DURRENTIA Razowski, 1960
HYSTEROSIA Stephens, 1852
IDIOGRAPHIS Lederer, 1859
PARAHYSTEROSIA Razowski, 1960
PHTEOCHROA Caradja, 1926
PROPIRA Durrant, 1914
PTHEOCHROA; Razowski, 1964 missp.
TRACHYSMIA Guenée, 1845

51a0103.1 P. aegrana (Walsingham, 1879) (Idiographis) 3793
51a0104.1 P. aureoalbida (Walsingham, 1895) (Hysterosia) 3794
51a0105.1 P. baracana (Busck, 1907) (Hysterosia) 3804
tiscana (Kearfott, 1907) (Hysterosia)
vigilans (Meyrick, 1912) (Hysterosia)
51a0106.1 P. birdana (Busck, 1907) (Hysterosia) 3801
51a0107.1 P. canariana (Barnes & Busck, 1920) (Hysterosia) 3795
51a0108.1 P. cartwrightana (Kearfott, 1907) (Hysterosia) 3798
pecosana (Kearfott, 1907) (Hysterosia) [3803]
51a0109.1 P. fulviplicana (Walsingham, 1879) (Idiographis) 3792
fermentata (Meyrick, 1912) (Hysterosia)
homanana (Kearfott, 1907) (Hysterosia)
komonana (Kearfott, 1907) (Hysterosia)
refuga (Meyrick, 1912) (Hysterosia)
51a0110.1 P. huachucana (Kearfott, 1907) (Commophila) 3776
51a0111.1E P. inopiana (Haworth, 1811) (Tortrix) EXCL. [NEW]
NOTE: Not listed for NA by Metzler & Brown (2014).
51a0112.1 P. modestana (Busck, 1907) (Hysterosia) 3805
51a0113.1 P. perspicuana (Barnes & Busck, 1920) (Hysterosia) 3800
51a0114.1 P. riscana (Kearfott, 1907) (Hysterosia) 3802
vincta (Meyrick, 1912) (Hysterosia)
51a0115.1 P. terminana (Busck, 1907) (Hysterosia) 3799
merrickana (Kearfott, 1907) (Hysterosia)
51a0116.1 P. villana (Busck, 1907) (Hysterosia) 3797
51a0117.1 P. vitellinana (Zeller, 1876) (Conchylis) 3787
51a0118.1 P. vulneratana of authors; (not Zetterstedt, 1839) (Tortrix) MISAPPL. [NEW]
NOTE: Gilligan et al. (2020a) found that DNA barcodes separate the Palaearctic and Nearctic specimens identified as this species; thus, *P. vulneratana* is Palaearctic only and the NA populations are a different species. However, they are retained here under this placeholder name pending taxonomic work.
51a0119.1 P. waracana (Kearfott, 1907) (Hysterosia) 3796
dicax (Meyrick, 1912) (Hysterosia)

Genus EUPINIVORA Brown, 2013
ID INFO: Brown (2013).

51a0120.1 E. ponderosae Brown, 2013 (Eupinivora) [NEW]

Genus HENRICUS Busck, 1943
ID INFO: Razowski (1984, 1991).
HEINRICHIA Busck, 1940
HYSTEROPHORA Obraztsov, 1943
IRAZONA Razowski, 1964

51a0121.1 H. cognata (Walsingham, 1914) (Propira) [NEW]
51a0122.1 H. comes (Walsingham, 1884) (Conchylis) 3778
51a0122.2 H. edwardsiana (Walsingham, 1884) (Conchylis) 3820
NOTE: Metzler & Brown (2014) erroneously listed *contrastana* as the senior synonym.
contrastana (Kearfott, 1907) (Commophila) [3774]
51a0123.1 H. fuscodorsana (Kearfott, 1904) (Commophila) 3773
51a0124.1 H. infernalis (Heinrich, 1920) (Commophila) 3771
brevipalpata McDunnough, 1944 (Henricus) [3772]
51a0125.1 H. macrocarpana (Walsingham, 1895) (Phtheochroa) 3770
51a0126.1 H. umbrabasana (Kearfott, 1908) (Commophila) 3777

Genus AETHES Billberg, 1820
ID INFO (partial): Razowski (1997), Metzler (1999), Sabourin et al. (2002b), Brown (2019a).
ARGYRIDIA Stephens, 1852
CHLIDONIA Hübner, [1825]
CHROSIS Guenée, 1845
CIRRIAETHES Razowski, 1962
COECAETHES Walsingham, 1943
DAPSILIA Hübner, [1825]
LOZOPERA Stephens, 1829
PHALONIA Hübner, 1825

51a0127.1 A. angulatana (Robinson, 1869) (Conchylis) 3807
51a0128.1 A. angustana (Clemens, 1860) (Lozopera) [NEW]
augustana; (Powell, 1983) (Conchylis) missp. [3808]
dorsimaculana (Robinson, 1869) (Conchylis)
51a0129.1 A. argentilimitana (Robinson, 1869) (Conchylis) 3809
labeculana (Robinson, 1869) (Conchylis) [3833]
51a0130.1 A. atomosana (Busck, 1907) (Phalonia) 3810
51a0131.1 A. baloghi Sabourin & Metzler, 2002 (Aethes) [NEW]
51a0132.1 A. biscana (Kearfott, 1907) (Phalonia) 3815
giscana (Kearfott, 1907) (Phalonia)
ixeuta (Meyrick, 1912) (Phalonia)
51a0133.1 A. bomonana (Kearfott, 1907) (Phalonia) 3816
cyamitis (Meyrick, 1912) (Conchylis)
cyanitis Razowski, 2000 (Aethes)
fabicola (Meyrick, 1912) (Phalonia)
ziscana (Kearfott, 1907) (Phalonia) [3862]
NOTE: Synonymy by Metzler & Brown (2014).
51a0134.1 A. deutschiana (Zetterstedt, 1839) (Tortrix) H 3757
NOTE: Gilligan et al. (2020a) treated *A. deutschiana* as extralimital to NA, with specimens from the USA and southern Canada referring to one or more cryptic species. However, specimens from NU in northern Canada have DNA barcodes matching those of *A. deutschiana* from Europe, so we continue to treat this species as Holarctic (contributed by SRN). It is recognized herein that the more southerly populations may represent a separate species.
chalcana (Packard, 1867) (Conchylis)
fuscostriana Razowski, 1997 (Aethes)
fuscostrigana (Clemens, 1864) (Lozopera)
lutulentana (Herrich-Schäffer, 1856) (Cochylis)
51a0135.1 A. fernaldana (Walsingham, 1879) (Cochylis) 3754
51a0136.1 A. floccosana (Walker, 1863) (Conchylis) [NEW]
confusana (Robinson, 1869) (Tortrix)
flaccosana; (Powell, 1983) (Hysterosia) missp. [3822]
51a0137.1 A. heleniana Razowski, 1997 (Aethes) [NEW]
51a0138.1 A. intactana (Walsingham, 1879) (Cochylis) 3759
51a0139.1 A. interruptofasciata (Robinson, 1869) (Conchylis) [NEW]
NOTE: Raised from synonymy with *labeculana* (now a synonym of *A. argentilimitana*), which had been misidentified by Razowski (1997) (Sabourin et al. 2002b).
aureana (Busck, 1907) (Phalonia) [3811]
interruptofasciana; (Powell, 1983) (Hysterosia) missp. [3832]
sublepidana (Kearfott, 1907) (Phalonia) [3853]
51a0140.1E A. kindermanniana (Treitschke, 1830) (Cochylis) EXCL. [NEW]
NOTE: This species was listed from NA in error by Powell (in Hodges et al. 1983); no NA records are known.
kindermannana; Powell, 1983 (Aethes) missp.; (excl.) [3756]
51a0141.1 A. louisiana (Busck, 1907) (Phalonia) 3837
51a0142.1 A. matheri Sabourin & Miller, 2002 (Aethes) [NEW]
51a0143.1 A. matthewcruzi Sabourin & Vargo, 2002 (Aethes) [NEW]
51a0144.1 A. monera Razowski, 1986 (Aethes) [NEW]
ssp. a. monera Razowski, 1986 (Aethes)
ssp. b. septentrionalis Razowski, 1997 (Aethes)
51a0145.1 A. mymara Razowski, 1997 (Aethes) [NEW]
51a0146.1 A. obliquana (Kearfott, 1907) (Phalonia) 3841
obliquna; Razowski, 2000 (Aethes) missp.
51a0147.1 A. patricia Metzler, 1999 (Aethes) [NEW]
51a0148.1 A. promptana (Robinson, 1869) (Conchylis) 3844
51a0149.1 A. rana (Busck, 1907) (Phalonia) 3846
funesta (Meyrick, 1912) (Phalonia)
51a0150.1 A. razowskii Sabourin & Miller, 2002 (Aethes) [NEW]
51a0151.1 A. ringsi (Metzler, 1999) (Cochylis) [NEW]
NOTE: Transferred to *Aethes* by Brown (2019a).
51a0152.1 A. rutilana (Hübner, 1818) (Tortrix) extralim. H 3758
ssp. a. canadiana Razowski, 1997 (Aethes)
51a0153.1 A. seriatana (Zeller, 1876) (Conchylis) 3850
51a0154.1 A. sexdentata Sabourin & Miller, 2002 (Aethes) [NEW]
51a0155.1 A. smeathmanniana (Fabricius, 1781) (Pyralis) H 3755
biviana (Duponchel, in: Godart, 1842) (Cochylis)
fabricana (Hübner, [1796-1799]) (Tortrix)
scissana (Walker, 1863) (Conchylis) [3849]
stachydana (Herrich-Schäffer, 1851) (Tortrix)
a0156.1E A. sonorae (Walsingham, 1884) (Conchylis) EXCL. [NEW]
NOTE: Listed in error for NA by Pohl et al. (2016); this species is not known to occur north of Mexico.
51a0157.1 A. spartinana (Barnes & McDunnough, 1916) (Phalonia) 3851
51a0158.1 A. terriae Sabourin & Miller, 2002 (Aethes) [NEW]
51a0158.2 A. triassumenta Pogue, in: Brown, 2019 (Aethes) [NEW]
51a0159.1 A. vachelliana (Kearfott, 1907) (Phalonia) 3856
51a0160.1 A. westratei Sabourin & Miller, 2002 (Aethes) [NEW]

Genus RUDENIA Razowski, 1985
ID INFO: Razowski (1985).

51a0161.1 R. leguminana (Busck, 1907) (Phalonia) 3835

Genus SAPHENISTA Walsingham, 1914
ID INFO (partial): Brown (2019b).

51a0162.1 S. nomonana (Kearfott, 1907) (Phalonia) 3840
voluntaria (Meyrick, 1912) (Phalonia)
51a0163.1 S. parvimaculana (Walsingham, 1879) (Cochylis) 3766
NOTE: Genus placement is uncertain; this species may belong in *Platphalonidia* (that was the implied conclusion by Metzler & Albu 2013).
51a0164.1 S. saxicolana (Walsingham, 1879) (Cochylis) 3780
51a0164.2 S. bartellae Brown, 2019 (Saphenista) [NEW]
51a0164.3 S. powelli Brown, 2019 (Saphenista) [NEW]
51a0165.1 S. latipunctana (Walsingham, 1879) (Cochylis) 3779
51a0166.1 S. dilutana (Walsingham, 1879) (Cochylis) 3768

Genus GYNNIDOMORPHA Turner, 1916
PIERCA; Razowski, 1977 missp.
PIERCEA Filipjev, 1940

51a0167.1 G. romonana (Kearfott, 1908) (Phalonia) 3847
officiosa (Meyrick, 1912) (Phalonia)

Genus LORITA Busck, 1939
ID INFO: Pogue (1988).

51a0168.1 L. baccharivora Pogue, 1988 (Lorita) [NEW]
51a0169.1 L. scarificata (Meyrick, 1917) (Phalonia) [NEW]
abornana Busck, 1939 (Lorita) [3781]
chatka Busck, 1939 (Lorita)

Genus PHALONIDIA Le Marchand, 1933
BREVISOCIARIA Obraztsov, 1943

51a0170.1 P. basiochreana (Kearfott, 1907) (Phalonia) 3814
51a0171.1 P. elderana (Kearfott, 1907) (Phalonia) 3821
helonoma (Meyrick, 1912) (Phalonia)
51a0172.1 P. lepidana (Clemens, 1860) (Argyrolepia) 3836
NOTE: The current status of *ontariana*; *straminoides*; and *lepidana* and its synonyms may not be correct; further work is warranted on this group.
plummeriana (Busck, 1907) (Phalonia) [3843]
schwarziana (Busck, 1907) (Phalonia) [3848]
zaracana (Kearfott, 1907) (Phalonia) [3861]
51a0173.1 P. memoranda Razowski, 1997 (Phalonidia) [NEW]
51a0174.1 P. ontariana Razowski, 1997 (Phalonidia) [NEW]
NOTE: See note under *P. lepidana*.
51a0175.1 P. straminoides (Grote, 1873) (Conchylis) 3852
NOTE: See note under *P. lepidana*.

Genus POGOSPINIA Brown, 2019
ID INFO: Brown (2019a).

51a0175.2 P. floridana Brown, 2019 (Pogospinia) [NEW]

Genus SPINIPOGON Razowski, 1967
ID INFO (partial): Metzler & Sabourin (2002).

51a0175.3 S. harmozones Razowski, 1986 (Spinipogon) [NEW]
NOTE: Pohl et al. (2016) listed *S. thes* (TL Santa Catarina, Brazil) as present in NA, based on a specimen in the USNM collected in Cameron Co., TX. Upon further examination, the TX specimen has been tentatively redetermined as *S. harmozones* (TL Nuevo Leon, Mexico). This is the first record of *S. harmozones* from the USA (Gilligan et al. 2020a).
thes of authors; not Razowski & Becker, 1983 (Spinipogon) misid.
51a0176.1 S. resthavenensis Metzler & Sabourin, 2002 (Spinipogon) [NEW]

Genus ANACOCHYLIDIA Brown, 2019
ID INFO: Brown (2019a).

51a0176.2 A. maderana Brown, 2019 (Anacochylidia) [NEW]

Genus ATROPOSIA Pogue, in: Brown, 2019
ID INFO: Brown (2019a).

51a0177.1 A. oenotherana (Riley, 1881) (Conchylis) 3842

Genus CAGIVA Pogue, in: Brown, 2019
ID INFO: Brown (2019a).

51a0178.1 C. cephalanthana (Heinrich, 1921) (Phalonia) 3818

Genus COCHYLICHROA Obraztsov & Swatscheck, 1958
NOTE: Elevated to genus (from a synonym of *Cochylis*) and its composition established by Brown (2019a).

51a0179.1 C. arthuri (Dang, 1984) (Cochylis) [NEW]
51a0180.1 C. atricapitana (Stephens, 1852) (Eupoecilia) I [NEW]
NOTE: Introduced from Europe for biocontrol of Tansy Ragwort (*Jacobaea vulgaris* Gaertn.; Asteraceae) (De Clerck-Floate & Carcamo 2011).
51a0181.1 C. aurorana (Kearfott, 1907) (Phalonia) 3812
51a0182.1 C. avita (Razowski, 1997) (Cochylis) [NEW]
51a0183.1 C. foxcana (Kearfott, 1907) (Phalonia) 3823
liquida (Meyrick, 1912) (Phalonia)
51a0184.1 C. hoffmanana (Kearfott, 1907) (Phalonia) 3828
baryzela (Meyrick, 1912) (Phalonia)
hofmanana; (Razowski, 1997) (Cochylis) missp.
magnaedoeagana (Gibeaux, 1985) (Cochylis)
marloffiana (Busck, 1907) (Phalonia) *[3839]*
nonlavana (Kearfott, 1907) (Phalonia)
telifera (Meyrick, 1912) (Phalonia)
toxcana (Kearfott, 1907) (Phalonia) *[3855]*
zoxcana (Kearfott, 1907) (Phalonia) *[3863]*
51a0185.1 C. hospes (Walsingham, 1884) (Conchylis) 3830
51a0186.1 C. punctadiscana (Kearfott, 1908) (Phalonia) 3845
51a0187.1 C. temerana (Busck, 1907) (Phalonia) 3854
cincinnatana (Kearfott, 1907) (Phalonia)
51a0188.1 C. viscana (Kearfott, 1907) (Phalonia) 3857
peganitis (Meyrick, 1912) (Phalonia)

Genus COCHYLIDIA Obraztsov, 1956

51a0189.1 C. subroseana (Haworth, 1811) (Tortrix) H [NEW]
NOTE: Holarctic (Razowski 1997). Although Pogue (1988) considered the NA populations to be undescribed, Gilligan et al. (2020a) examined specimens from CO that are conspecific with *C. subroseana*.
flammeolana (Tengström, 1848) (Cochylis)
phaleratana (Herrich-Schäffer, 1851) (Tortrix)
rubroseana (Stephens, 1829) (Eupoecilia)

Genus COCHYLIS Treitschke, 1830
ID INFO (partial): Razowski (1984, 1997), Metzler & Forbes (2012).
CONCHYLIS; Sodoffsky, 1837 emend.
LONGICORNUTIA Razowski, 1960

51a0190.1 C. bucera Razowski, 1997 (Cochylis) [NEW]
51a0191.1 C. carmelana (Kearfott, 1907) (Phalonia) 3817
obispoana (Kearfott, 1907) (Phalonia)
51a0192.1 C. caulocatax Razowski, 1984 (Cochylis) [NEW]
51a0193.1 C. dormitoria Razowski, 1997 (Cochylis) [NEW]
51a0194.1 C. formonana (Kearfott, 1907) (Phalonia) 3767
myrinitis (Meyrick, 1912) (Phalonia)
51a0195.1 C. parallelana Walsingham, 1879 (Cochylis) 3761
paralellana; Razowski, 1964 (Cochylis) missp.
51a0196.1 C. transversana Walsingham, 1879 (Cochylis) 3762
51a0197.1 C. yinyangana Metzler, 2012 (Cochylis) [NEW]

Genus CYBILLA Pogue, in: Brown, 2019
ID INFO: Brown (2019a).

51a0198.1 C. hubbardana (Busck, 1907) (Phalonia) 3831

Genus MIMCOCHYLIS Razowski, 1985
ID INFO: Brown (2019a).

51a0199.1 M. fulvotinctana (Walsingham, 1884) (Conchylis) 3824
planola Razowski, 1985 (Mimcochylis)

Genus MONOCERATUNCUS Razowski, 1992
ID INFO: Brown (2019a).
CERATUNCUS Razowski, 1986

51a0200.1 M. lantana Pogue, in: Brown, 2019 (Monoceratuncus) [NEW]

Genus NEOCOCHYLIS Razowski, 1960

51a0201.1 N. dubitana (Hübner, 1799) (Tortrix) H [NEW]
ambiguana (Frölich, 1828) (Tortrix)
baseirufana (Bruand, 1850) (Lobesia)
islandicana (Bjornsson, 1968) (Cochylis)

Genus NYCTHIA Pogue, in: Brown, 2019
ID INFO: Brown (2019a).

51a0202.1 N. pimana (Busck, 1907) (Phalonia) 3763
pimama (Brown, 2019) (Phalonia)
51a0203.1 N. yuccatana (Busck, 1907) (Phalonia) 3860

Genus PLATPHALONIDIA Razowski, 1985
ID INFO (partial): Metzler & Albu (2013).
NOTE: Elevated to genus by Brown et al. (2020).
PLATPHALONIA Razowski, 2011

Platphalonidia felix group Brown et al., 2020

51a0204.1 P. albertae Razowski, 1997 (Platphalonidia) [NEW]
51a0205.1 P. dangi Razowski, 1997 (Platphalonidia) [NEW]
51a0206.1 P. felix (Walsingham, 1895) (Phalonia) 3760
51a0207.1 P. magdalenae (Metzler & Albu, 2013) (Platphalonia) [NEW]
51a0208.1 P. plicana (Walsingham, 1884) (Conchylis) [NEW]
51a0209.1 P. subolivacea (Walsingham, 1897) (Phalonia) [NEW]
NOTE: Reported from FL by Heppner (2007), and it has since been found ranging north to NY (identifications based on comparison to USNM material). Brown et al. (2020) unintentionally omitted this species from the list of *Platphalonidia* species, but it had already been treated in that genus by Heppner (2007).

Platphalonidia campicolana group Brown et al., 2020

51a0210.1 P. campicolana (Walsingham, 1879) (Cochylis) 3765
51a0211.1 P. imitabilis Razowski, 1997 (Platphalonidia) [NEW]
51a0212.1 P. lavana (Busck, 1907) (Phalonia) 3834

Genus ROLANDYLIS Gibeaux, 1985
ID INFO: Pogue (2001).
CLOTHOA Pogue, 1990

51a0213.1 R. fusca Pogue, 2001 (Rolandylis) [NEW]
51a0214.1 R. maiana (Kearfott, 1907) (Phalonia) 3838
NOTE: *Rolandylis maiana* is Nearctic; the type specimen of the junior synonym *R. catalonica* from France is likely mislabeled, or possibly an inadvertent introduction of this species to Europe (Gilligan et al. 2020a).
catalonica Gibeaux, 1985 (Rolandylis)
51a0215.1 R. virilia Pogue, 2001 (Rolandylis) [NEW]

Genus THYRAYLIA Walsingham, 1897
ACORNUTIA Obraztsov, 1944
THYRALIA; Walsingham, 1914 missp.

51a0216.1 T. bana (Kearfott, 1907) (Phalonia) 3775
rhodites (Meyrick, 1912) (Phalonia)
51a0217.1 T. bunteana (Robinson, 1869) (Conchylis) 3769
51a0218.1 T. discana (Kearfott, 1907) (Phalonia) 3819
cricota (Meyrick, 1912) (Phalonia)
51a0219.1 T. gunniana (Busck, 1907) (Phalonia) 3827
51a0220.1 T. hollandana (Kearfott, 1907) (Phalonia) 3829
51a0221.1 T. nana (Haworth, 1811) (Tortrix) H/I 3764
albidana (Walker, 1866) (Simaethis) *[3806]*

altocorsicana (Petry, 1904) (Conchylis)
carneana (Guenée, 1845) (Eupoecilia)
cruentana (Guenée, 1845) (Eupoecilia)
ochreoalbana (Walker, 1863) (Penthina)
pallidana (Herrich-Schäffer, 1851) (Tortrix)
winniana (Kearfott, 1905) (Phalonia)

51a0222.1 T. voxcana (Kearfott, 1907) (Phalonia) 3858
omphacitis (Meyrick, 1912) (Phalonia)

51a0223.1 T. wiscana (Kearfott, 1907) (Phalonia) 3859
NOTE: Transferred from *Hysterosia* (incertae sedis) by Brown (2019a).
acropeda (Meyrick, 1912) (Phalonia)

[COCHYLINA – NO GENUS]

51a0224.1 []. glaucofuscana (Zeller, 1876) (Conchylis) 3825
NOTE: This species was unplaced to genus by Brown (2005), and it remains unplaced in Gilligan et al. (2018).

Subtribe EULIINA Kuznetzov & Stekolnikov, 1977

Genus EULIA Hübner, 1825
LOPHODORUS Stephens, 1829

51a0227 E. ministrana (Linnaeus, 1758) (Phalaena) H 3565
dilutana (Strand, 1901) (Lophoderus)
ferrugana (Hübner, [1796-1799]) (Tortrix)
infuscanus (Strand, 1901) (Lophoderus)
livoniana (Duponchel, 1845) (Ptycholoma)
subfascianus (Stephens, 1834) (Lophoderus)

Genus DORITHIA Powell, 1964
ID INFO: Brown & Powell (1991).

51a0228 D. semicirculana (Fernald, 1882) (Tortrix) 3581
51a0229 D. peroneana (Barnes & Busck, 1920) (Tortrix) 3582
51a0230 D. trigonana Brown & Obraztsov, 1991 (Dorithia) [NEW]

Genus CUPROXENA Powell & Brown, 1991
ID INFO: Brown & Powell (1991).

51a0231 C. minimana Brown, 1991 (Cuproxena) [NEW]

Genus ANOPINA Obraztsov, 1962
ID INFO: Brown & Powell (2000).
OSMARIA Razowski, 1991

Anopina triangulana group Brown & Powell, 2000

51a0232 A. triangulana (Kearfott, 1908) (Tortrix) 3583
51a0232.1 A. hermana Brown & Powell, 2000 (Anopina) [NEW]
51a0233 A. eleonora Obraztsov, 1962 (Anopina) 3585
51a0234 A. ednana (Kearfott, 1907) (Tortrix) 3584
51a0235 A. internacionana Brown & Powell, 2000 (Anopina) [NEW]
51a0236 A. arizonana (Walsingham, 1884) (Sciaphila) 3586

Anopina incana group Brown & Powell, 2000

51a0237 A. ainslieana Obraztsov, 1962 (Anopina) 3588

Anopina silvertonana group Brown & Powell, 2000

51a0238 A. silvertonana Obraztsov, 1962 (Anopina) 3587
51a0239 A. chiricahuae Brown & Powell, 2000 (Anopina) [NEW]

Anopina chemsaki group Brown & Powell, 2000

51a0240 A. wrighti Brown & Powell, 2000 (Anopina) [NEW]

Genus APOTOMOPS Powell & Obraztsov, 1986
ID INFO: Blanchard & Knudson (1984b).

51a0241 A. wellingtoniana (Kearfott, 1907) (Olethreutes) 3589
wellingtonana Powell, 1986 (Apotomops)
51a0242 A. texasana (Blanchard & Knudson, 1984) (Anopina) [NEW]

Genus ACROPLECTIS Meyrick, 1927

51a0243 A. haemanthes Meyrick, 1927 (Acroplectis) 3590

Genus NEOEULIA Powell, 1986

51a0244 N. dorsistriatana (Walsingham, 1884) (Conchylis) 3591

Genus BONAGOTA Razowski, 1987
ID INFO: Razowski & Becker (2000).

51a0245 B. arizonae Razowski & Becker, 2000 (Bonagota) [NEW]

Genus DURANGULARIA Gilligan & Brown, 2016
ID INFO: Gilligan & Brown (2016).
DURANGARCHIPS Powell, 1995

51a0245.5 D. druana (Walsingham, 1914) (Tortrix) [NEW]
NOTE: This otherwise subtropical species is known in NA from AZ and TX (Gilligan & Brown 2016).

Genus HYPTIHARPA Razowski, 1992
ID INFO: Brown (2016).
NOTE: Tribal placement of this genus is tentative, it may not belong in the Euliina or the Cochylini.

51a0245.7 H. baboquavariana (Kearfott, 1907) (Tortrix) [NEW]
NOTE: This species was named for the Baboquivari Mountains, which were commonly spelled "Baboquavari" at the time. Thus, the original spelling is deemed correct. The emendation "*baboquivariana*" appears to have originated with Powell (in Hodges et al. 1983).
baboquivariana; ([various, no date]) (Cochylini unplaced) emend. *[3813]*
hypostas Razowski, 1992 (Hyptiharpa)

Tribe ARCHIPINI Pierce & Metcalfe, 1922
ID INFO: Freeman (1958).

Genus PANDEMIS Hübner, 1825
ARCHEPANDEMIS Mutuura, 1978
PARAPANDEMIS Obraztsov, 1954

51a0246 P. cerasana (Hübner, 1786) (Phalaena) I 3592
NOTE: Introduced from Eurasia, first found in BC in 1964 (Evans 1966); confirmed with DNA barcode data by Gilligan et al. (2020a).
grossulariana (Stephens, 1835) (Tortrix)
ribeana (Hübner, [1796-1799]) (Tortrix)
transiens Dufrane, 1957 (Pandemis)

51a0247 P. heparana ([Denis & Schiffermüller], 1775) (Tortrix) I [NEW]
NOTE: Introduced from Eurasia, first found in BC in 1978 (Doğanlar & Beirne 1979); confirmed with DNA barcode data by Gilligan et al. (2020a).
cappana (Villers, 1789) (Phalaena)
carpiniana (Hübner, [1796-1799]) (Tortrix)
fasciana (Fabricius, 1787) (Pyralis)
jamaicana (Walker, 1863) (Teras)
NOTE: Synonymy by Austin & Dombroskie (2020).
padana (Schrank, 1802) (Tortrix)
pasquayana ([Denis & Schiffermüller], 1775) (Tortrix)
rubrana (Sodoffsky, 1830) (Tortrix)
subclarana Caradja, 1931 (Pandemis)
vulpisana (Herrich-Schäffer, 1851) (Tortrix)

51a0248 P. lamprosana (Robinson, 1869) (Tortrix) 3593
51a0249 P. limitata (Robinson, 1869) (Tortrix) 3594
limitana; Forbes, 1923 (Pandemis) missp.
51a0250 P. canadana Kearfott, 1905 (Pandemis) 3595
51a0251 P. pyrusana Kearfott, 1907 (Pandemis) 3596
pyrana Meyrick, 1912 (Pandemis)
51a0252 P. borealis (Freeman, 1965) (Parapandemis) 3669
51a0253 P. coniferana (Mutuura, 1978) (Archepandemis) 3670
51a0254 P. morrisana (Mutuura, 1978) (Archepandemis) 3671

Genus ARGYROTAENIA Stephens, 1852
ID INFO: Freeman (1958); also Powell (1960), Obraztsov (1961), Heppner (1989), Brown & Cramer ([2000]).
ARGYROTHAENIA; Diakonoff, 1939 missp.
SUBARGYROTAENIA Obraztsov, 1961

51a0255 A. velutinana (Walker, 1863) (Cacoecia) 3597
incertana (Clemens, 1865) (Tortrix)
lutosana (Clemens, 1865) (Tortrix)
triferana (Walker, 1863) (Cacoecia)
51a0256 A. montezumae (Walsingham, 1914) (Tortrix) extralim. 3598
ssp. a. huachucensis Obraztsov, 1961 (Argyrotaenia)
51a0257 A. hodgesi Heppner, 1989 (Argyrotaenia) [NEW]
51a0258 A. floridana Obraztsov, 1961 (Argyrotaenia) 3599
51a0259 A. kimballi Obraztsov, 1961 (Argyrotaenia) 3600
51a0260 A. repertana Freeman, 1944 (Argyrotaenia) 3601
51a0261 A. pinatubana (Kearfott, 1905) (Eulia) 3602
piritubana; (Meyrick, 1913) (Eulia) emend.
51a0262 A. tabulana Freeman, 1944 (Argyrotaenia) 3603

51a0263 A. spaldingiana Obraztsov, 1961 (Argyrotaenia) 3604
51a0264 A. gogana (Kearfott, 1907) (Olethreutes) 3605
crepuscularis (Meyrick, 1912) (Olethreutes)
51a0265 A. amatana (Dyar, 1901) (Lophoderus) 3606
chioccana (Kearfott, 1907) (Tortrix)
chiococanna; (Meyrick, 1912) (Eulia) emend.
neibana Razowski, 1999 (Argyrotaenia)
ochrochroa Razowski, 1999 (Argyrotaenia)
ochrotona; Razowski & Becker, 2000 (Argyrotaenia) missp.
51a0266 A. occultana Freeman, 1942 (Argyrotaenia) 3607
ljungiana of authors; (not Thunberg, 1797) (Tortrix) misappl.
51a0267 A. coloradana (Fernald, 1882) (Lophoderus) 3608
51a0268 A. provana (Kearfott, 1907) (Olethreutes) 3609
invidana (Barnes & Busck, 1920) (Tortrix)
51a0269 A. lignitaenia Powell, 1965 (Argyrotaenia) 3611
51a0270 A. franciscana (Walsingham, 1879) (Tortrix) 3612
NOTE: Report of this species being introduced to NA by Pohl et al. (2016) is erroneous; this species was introduced to Canada, but it is native to western NA (Gilligan et al. 2020a).
ssp. a. franciscana (Walsingham, 1879) (Tortrix)
citrana (Fernald, 1889) (Tortrix) *[3614]*
kearfotti Obraztsov, 1961 (Argyrotaenia)
ssp. b. insulana Powell, 1964 (Argyrotaenia)
51a0271E A. purata (Meyrick, 1930) (Tortrix) EXCL. [NEW]
NOTE: This valid species does not occur in NA. It was listed as a synonym of *A citrana*, in part, by Powell (in Hodges et al. 1983).
51a0272 A. isolatissima Powell, 1964 (Argyrotaenia) 3613
51a0273 A. niscana (Kearfott, 1907) (Eulia) 3610
camerata (Meyrick, 1912) (Eulia)
51a0274 A. cupressae Powell, 1960 (Argyrotaenia) 3615
ssp. a. cupressae Powell, 1960 (Argyrotaenia)
ssp. b. beyeria Powell, 1960 (Argyrotaenia)
51a0275 A. paiuteana Powell, 1960 (Argyrotaenia) 3616
51a0276 A. burroughsi Obraztsov, 1961 (Argyrotaenia) 3617
51a0277 A. dorsalana (Dyar, 1903) (Tortrix) 3618
dimorphana (Barnes & Busck, 1920) (Tortrix)
51a0278 A. lautana Powell, 1960 (Argyrotaenia) 3619
51a0279 A. klotsi Obraztsov, 1961 (Argyrotaenia) 3620
51a0280 A. quadrifasciana (Fernald, 1882) (Lophoderus) 3621
51a0281 A. juglandana (Fernald, 1879) (Tortrix) 3622
51a0282 A. quercifoliana (Fitch, 1858) (Argyrolepia) 3623
trifurculana (Zeller, 1876) (Tortrix)
51a0283 A. alisellana (Robinson, 1869) (Tortrix) 3624
51a0284 A. mariana (Fernald, 1882) (Lophoderus) 3625
51a0285 A. burnsorum Powell, 1960 (Argyrotaenia) 3626
51a0286 A. ivana (Fernald, 1901) (Tortrix) 3627
51a0287 A. martini Powell, 1960 (Argyrotaenia) 3628
51a0288 A. graceana Powell, 1960 (Argyrotaenia) 3629
51a0289 A. coconinana Brown & Cramer, [2000] (Argyrotaenia) [NEW]
51a0290 A. bialbistriata Brown & Cramer, [2000] (Argyrotaenia) [NEW]

Genus DIEDRA Rubinoff & Powell, 1999
ID INFO: Rubinoff & Powell (1999).

51a0291 D. cockerellana (Kearfott, 1907) (Tortrix) 3630
51a0292 D. wielgusi (Clarke, [1991]) (Argyrotaenia) [NEW]
51a0293 D. intermontana Rubinoff & Powell, 1999 (Diedra) [NEW]
51a0294 D. leuschneri Rubinoff & Powell, 1999 (Diedra) [NEW]
51a0295 D. calocedrana Rubinoff & Powell, 1999 (Diedra) [NEW]

Genus CHORISTONEURA Lederer, 1859
ID INFO: Freeman (1967b); also Obraztsov (1962), Heppner (1989).
CORNICACOECIA Obraztsov, 1954
CUDONIGERA Obraztsov & Powell, 1977
HOSHINOA Kawabe, 1965

51a0296 C. obsoletana (Walker, 1863) (Tortrix) 3631
sanbornana (Robinson, 1869) (Tortrix)
seminolana (Kearfott, 1907) (Tortrix)
transiturana (Walker, 1863) (Cacoecia)
vesperana (Clemens, 1865) (Lozotaenia)
51a0297 C. fractivittana (Clemens, 1865) (Lozotaenia) 3632
fumosa (Robinson, 1869) (Tortrix)
51a0298 C. parallela (Robinson, 1869) (Tortrix) 3633
51a0299 C. zapulata (Robinson, 1869) (Tortrix) 3634
symphoricarpana (Kearfott, 1905) (Tortrix)
51a0300 C. rosaceana (Harris, 1841) (Loxotaenia) 3635
gossypiana (Packard, 1869) (Tortrix)
vicariana (Walker, 1863) (Teras)
51a0301 C. albaniana (Walker, 1863) (Teras) H 3636
arcticana (Möschler, 1874) (Tortrix)
kukakana (Kearfott, 1907) (Tortrix)
lapponana (Tengström, 1869) (Tortrix)
51a0302 C. conflictana (Walker, 1863) (Tortrix) 3637
51a0303 C. fumiferana (Clemens, 1865) (Tortrix) 3638
nigridia (Robinson, 1869) (Tortrix)
51a0304 C. retiniana (Walsingham, 1879) (Lozotaenia) 3639
lindseyana Obraztsov, 1962 (Choristoneura)
viridis Freeman, 1967 (Choristoneura)
51a0305.1 C. occidentalis Freeman, 1967 (Choristoneura) 3640
NOTE: The name *occidentalis* was reinstated as the valid NA species name, rather than the replacement name *freemani*, by Brunet et al. (2017). See also Fagua et al. (2018). The taxon *biennis* was designated a subspecies of *C. occidentalis* by Brunet et al. (2017).
freemani Razowski, 2008 (Choristoneura)
ssp. a. occidentalis Freeman, 1967 (Choristoneura)
ssp. b. biennis Freeman, 1967 (Choristoneura) [3641]
51a0307 C. orae Freeman, 1967 (Choristoneura) 3642
51a0308 C. pinus Freeman, 1953 (Choristoneura) 3643
ssp. a. pinus Freeman, 1953 (Choristoneura)
ssp. b. maritima Freeman, 1967 (Choristoneura)
51a0309 C. lambertiana (Busck, 1915) (Tortrix) 3644
ssp. a. lambertiana (Busck, 1915) (Tortrix)
ssp. b. ponderosana Obraztsov, 1962 (Choristoneura)
ssp. c. subretiniana Obraztsov, 1962 (Choristoneura)
51a0310 C. carnana (Barnes & Busck, 1920) (Tortrix) 3645
ssp. a. carnana (Barnes & Busck, 1920) (Tortrix)
ssp. b. californica Powell, 1964 (Choristoneura)
51a0311 C. spaldingiana Obraztsov, 1962 (Choristoneura) [NEW]
spaldingana; Brown, 2005 (Choristoneura) missp. *[3646]*
51a0312 C. argentifasciata Heppner, 1989 (Choristoneura) [NEW]
51a0313 C. houstonana (Grote, 1873) (Tortrix) 3647
retana (Walsingham, 1879) (Tortrix)

Genus ARCHIPS Hübner, 1822
ID INFO: Freeman (1958); also Franclemont (1986b), Kruse (2000), Kruse & Sperling (2002).
ARCHICEPS; Weiss & Dickerson, 1921 missp.
ARCHIPPUS Freeman, 1958
ARCHYPS Liu, 1987
CACOECIA Hübner, [1825]
CACOESIA; Llewellyn-Jones, 1939 missp.
PARARCHIPS Kuznetzov, 1970

Archips packardiana group Kruse & Sperling, 2002

51a0314 A. packardiana (Fernald, 1886) (Tortrix) 3667
51a0315 A. strianus Fernald, 1905 (Archips) 3664
51a0316 A. alberta (McDunnough, 1923) (Tortrix) 3665
51a0317 A. dissitana (Grote, 1879) (Tortrix) 3666
51a0318 A. tsuganus (Powell, 1962) (Archippus) 3668

Archips asiatica group Kruse & Sperling, 2002

51a0319 A. oporana (Linnaeus, 1758) (Phalaena) I 3663
NOTE: Introduced from Eurasia (Freeman 1958); confirmed with DNA barcode data by Gilligan et al. (2020a). This species was listed as uncertain in Canada (and by implication in NA) by Pohl & Dombroskie (in Pohl et al. 2018) but recently collected specimens from ON in the BOLD database indicate this species occurs in Canada.
bathyglypta (Meyrick, in: Caradja, 1932) (Cacoecia)
dissimilana (Bentley, 1845) (Lozotaenia)
hermanniana ([Denis & Schiffermüller], 1775) (Tortrix)
impervia (Meyrick, in: Joannis, 1930) (Cacoecia)
piceana (Linnaeus, 1758) (Phalaena)
similis (Butler, 1879) (Cacoecia)

Archips xylosteana group Kruse & Sperling, 2002

51a0319.1 A. xylosteana (Linnaeus, 1758) (Phalaena) I [NEW]
NOTE: Introduced from Eurasia, first found in NL in 2005 (Hoebeke et al. 2008).
characterana (Hübner, 1793) (Phalaena)
densata (Geoffroy, in: Fourcroy, 1785) (Phalaena)
hybnerana (Fabricius, 1794) (Pyralis)
obliquana (Fabricius, 1781) (Pyralis)
pallens (Kennel, 1910) (Cacoecia)
sabrinae Leraut & Luquet, 1996 (Archips)

westriniana (Thunberg & Borgström, 1784) (Tortrix)

51a0320 A. rosana (Linnaeus, 1758) (Phalaena) I 3650
NOTE: Introduced from Eurasia, first found in NY in 1890 (Gillespie & Gillespie 1982; Powell & Opler 2009); confirmed with DNA barcode data by Gilligan et al. (2020a).
acerana (Hübner, [1796-1799]) (Tortrix)
ameriana (Linnaeus, 1758) (Phalaena)
amerina; (Linnaeus, 1761) (Phalaena) missp.
avellana (Linnaeus, 1758) (Phalaena)
hewittana (Busck, 1920) (Cacoecia)
laevigana ([Denis & Schiffermüller], 1775) (Tortrix)
nebulana (Stephens, 1834) (Lozotaenia)
orientana (Krulikovsky, 1909) (Cacoecia)
oxyacanthana (Hübner, [1796-1799]) (Tortrix)
splendana (Kennel, 1910) (Cacoecia)
testaceana (Eversmann, 1844) (Tortrix)
variana (Fabricius, 1787) (Pyralis)

51a0321 A. podana (Scopoli, 1763) (Phalaena) I [NEW]
NOTE: Introduced from Eurasia (Doğanlar & Bierne 1978a; Gillespie & Gillespie 1982); confirmed with DNA barcode data by Gilligan et al. (2020a).
ameriana (Treitschke, 1830) (Cacoecia)
congenerana (Hübner, [1823-1824]) (Tortrix)
fulvana ([Denis & Schiffermüller], 1775) (Tortrix)
meridana Kozlov & Esartia, 1991 (Archips)
pyrastrana (Hübner, [1796-1799]) (Tortrix)
sauberiana (Sorhagen, 1882) (Tortrix)
vulpeculana (Fuchs, 1903) (Tortrix)

51a0322 A. fuscocupreanus Walsingham, 1900 (Archips) I [NEW]
NOTE: Introduced from East Asia (Maier & Mastro 1998).
ishidaii (Matsumura, 1900) (Loxotaenia)
punicae (Matsumura, 1931) (Cacoecia)
rosaceana Ishikawa, 1915 (Archips)

51a0323 A. argyrospila (Walker, 1863) (Retinia) 3648
columbiana (McDunnough, 1923) (Cacoecia)
furvana (Robinson, 1869) (Tortrix)
vividana (Dyar, 1902) (Cacoecia)
v-signatana (Packard, 1875) (Tortrix)

51a0324 A. mortuana Kearfott, 1907 (Archips) 3649
51a0325 A. nigriplagana Franclemont, 1986 (Archips) [NEW]
51a0326 A. goyerana Kruse, 2000 (Archips) [NEW]
51a0327 A. eleagnana (McDunnough, 1923) (Cacoecia) 3651
51a0328 A. myricana (McDunnough, 1923) (Cacoecia) 3652
51a0329 A. semiferanus (Walker, 1863) (Lophoderus) 3653
flaccidana (Robinson, 1869) (Tortrix)
51a0330 A. negundana (Dyar, 1902) (Cacoecia) 3654
nugundana; (Dyar, 1902) (Cacoecia) missp.
51a0331 A. georgiana (Walker, 1863) (Retinia) 3656
51a0332 A. magnoliana (Fernald, 1892) (Cacoecia) 3657
51a0333 A. grisea (Robinson, 1869) (Tortrix) 3660
brauniana Kearfott, 1907 (Archips)

Archips cerasivorana group Kruse & Sperling, 2002

51a0334 A. cerasivorana (Fitch, 1856) (Lozotaenia) 3661
51a0335 A. fervidana (Clemens, 1860) (Lozotaenia) 3655
palludana; (Beutenmüller, 1892) (Tortrix) missp.
paludana (Robinson, 1869) (Tortrix)
51a0336 A. infumatana (Zeller, 1876) (Tortrix) 3659
51a0337 A. rileyana (Grote, 1868) (Tortrix) 3662
fervidana (Walker, 1863) (Cacoecia)

Archips purpurana group Kruse & Sperling, 2002

51a0338 A. purpurana (Clemens, 1865) (Loxotaenia) 3658
gurgitana (Robinson, 1869) (Tortrix)
guritana; (Darlington, 1947) (Cacoecia) missp.
lintneriana (Grote, 1873) (Tortrix)

Genus SYNDEMIS Hübner, 1825

51a0340 S. afflictana (Walker, 1863) (Sciaphila) 3672
fuscolineana (Clemens, 1865) (Lozotaenia)

Genus LOZOTAENIA Stephens, 1829
ID INFO: Obraztsov (1962), Franclemont (1986b).
IZOTAENIA; Yasuda, 1975 missp.

51a0341 L. hesperia Powell, 1962 (Lozotaenia) 3673
51a0342 L. rindgei Obraztsov, 1962 (Lozotaenia) 3674
51a0343 L. costinotana Franclemont, 1986 (Lozotaenia) [NEW]
51a0344 L. exomilana Franclemont, 1986 (Lozotaenia) [NEW]

Genus APHELIA Hübner, [1825]
ID INFO: Razowski (1981).

Subgenus APHELIA Hübner, [1825]
AMELIA Hübner, [1825]

51a0345 A. alleniana (Fernald, 1882) (Tortrix) 3675
allenana (Llewellyn-Jones, 1935) (Tortrix)
ssp. a. alleniana (Fernald, 1882) (Tortrix)
trentonana (McDunnough, 1923) (Tortrix)
ssp. b. rindgeorum Obraztsov, 1959 (Aphelia)
51a0346 A. koebelei Obraztsov, 1959 (Aphelia) 3676
51a0348 A. gregalis Razowski, 1981 (Aphelia) [NEW]
51a0348.1 A. septentrionalis Obraztsov, 1959 (Aphelia) 3677

Genus CACOECIMORPHA Obraztsov, 1953

51a0349 C. pronubana (Hübner, 1822) (Tortrix) I 3678
NOTE: Introduced from Europe (Powell 1969b).
ambustana (Frölich, in: Geyer & Hübner, 1830) (Tortrix)
hermineana (Duponchel, in: Godart, 1834) (Tortrix)
insolatana (Lucas, 1848) (Tortrix)
perochreana (Herrich-Schäffer, 1856) (Tortrix)

Genus DICHELIA Guenée, 1845
PARASYNDEMIS Obraztsov, 1954

51a0350 D. histrionana (Frölich, 1828) (Tortrix) I [NEW]
NOTE: Introduced from Europe (deWaard et al. 2009); confirmed with DNA barcode data by Gilligan et al. (2020a).
pinana ([Denis & Schiffermüller], 1775) (Tortrix)
stygiana (Rebel, 1929) (Cacoecia)

Genus CLEPSIS Guenée, 1845
ID INFO: Razowski (1979a, b); also Dombroskie & Brown (2009), Kruse & Powell (2014).
NOTE: The species groups of Razowski (1979a, b) are not followed here, as the genus is badly in need of further taxonomic work.
CLEPSODES Diakonoff, 1957
MOCHLOPYGA Diakonoff, 1964
PSEUDAMELIA Obraztsov, 1954
PTYCHOLOMA Stephens, 1829
SICLOBOLA Diakonoff, 1948
SMICROTES Clemens, 1860

51a0351 C. listerana (Kearfott, 1907) (Phalonia) 3679
51a0352 C. fucana (Walsingham, 1879) (Lozotaenia) 3680
busckana Keifer, 1933 (Clepsis)
victoriana (Busck, 1922) (Cacoecia)
51a0353 C. anderslaneyii Dombroskie & Brown, 2009 (Clepsis) [NEW]
51a0354 C. kearfotti Obraztsov, 1962 (Clepsis) 3681
51a0355 C. spectrana (Treitschke, 1830) (Tortrix) I [NEW]
NOTE: Introduced from Europe (Dang et al. 1996; LaGasa 1999); confirmed with DNA barcode data by Gilligan et al. (2020a).
intermedia (Mansbridge, 1914) (Tortrix)
latiorana (Stainton, 1857) (Tortrix)
liverana (Mansbridge, 1914) (Tortrix)
vinculana (Treitschke, 1830) (Tortrix)

51a0356 C. danilevskyi Kostiuk, 1973 (Clepsis) H [NEW]
danilevski; Powell, 1983 (Clepsis) missp. *[3685.1]*
firthana Mutuura, 1980 (Clepsis)

51a0357 C. persicana (Fitch, 1856) (Croesia) 3682
astrileucana; ([various, no date]) (Sericoris) missp.
blandana (Clemens, 1864) (Ditula)
conigerana (Zeller, 1876) (Tortrix)
forbesi Obraztsov, 1962 (Clepsis)
fragariana (Packard, 1869) (Lozotaenia)
trileucana (Doubleday, 1847) (Sericoris)
NOTE: The name *trileucana* is a suppressed senior synonym of *C. persicana* (Brown 2005). It has been misspelled in historical Nearctic literature as "*astrileucana*".

51a0359 C. consimilana (Hübner, 1822) (Tortrix) I [NEW]
NOTE: Introduced from Eurasia (Klots 1941); confirmed with DNA barcode data by Gilligan et al. (2020a).
eatoniana (Ragonot, 1881) (Tortrix)
fallaciana (Fuchs, 1903) (Tortrix)
obliterana (Herrich-Schäffer, 1851) (Tortrix)
peregrinana (Stephens, 1852) (Pandemis)
placida (Diakonoff, 1948) (Siclobola)
productana (Zeller, 1847) (Tortrix)
semiana (Chrétien, 1915) (Cacoecia)

unifasciana (Duponchel, in: Godart, 1842) (Tortrix) *[3683]*

51a0360 C. clemensiana (Fernald, 1879) (Tortrix) 3684
nervosana (Kearfott, 1907) (Tortrix)

51a0361 C. moeschleriana (Wocke, 1862) (Tortrix) H 3685
algidana (Möschler, 1862) (Tortrix)
altaiensis Kostiuk, 1975 (Clepsis)
gelidana (Möschler, 1862) (Tortrix)

51a0362 C. melaleucanus (Walker, 1863) (Lophoderus) 3686
biustulana (Stephens, 1834) (Lozotaenia)
invexana (Walker, 1863) (Conchylis)
semifuscana (Clemens, 1864) (Ptycholoma)

51a0363 C. flavidana (McDunnough, 1923) (Tortrix) 3687

51a0364 C. peritana (Clemens, 1860) (Smicrotes) 3688
inconclusana (Walker, 1863) (Dichelia)
pinaria Razowski & Becker, 2010 (Clepsis)

51a0365 C. penetralis Razowski, 1979 (Clepsis) [NEW]

51a0366 C. virescana (Clemens, 1865) (Smicrotes) 3689
glaucana (Walsingham, 1879) (Loxotaenia)
sescuplana (Zeller, 1876) (Tortrix)

51a0367 C. illustrana (Krogerus, 1936) (Tortrix) H? [NEW]
NOTE: This species was first recorded in NA (AK) by Ferris et al. (2012), and it has since been found in northern Canada; DNA barcode data are not sufficient to determine if Palaearctic and Nearctic populations are conspecific (Gilligan et al. 2020a).

Genus EPIPHYAS Turner, 1927
ID INFO: Brown et al. (2010).
AUSTEROTORTRIX Razowski, 1977
AUSTROTORTRIX Bradley, 1956

51a0368 E. postvittana (Walker, 1863) (Teras) I [NEW]
NOTE: Introduced from Australia. This species was first detected in CA in 2006 and is now widespread throughout the state (Brown et al. 2010). In late 2021, the United States Department of Agriculture removed the quarantine for *E. postvittana* and reclassified it as a non-quarantine species.
basialbana (Walker, 1863) (Teras)
consociana (Walker, 1863) (Pandemis)
dissipata (Meyrick, 1922) (Tortrix)
foedana (Walker, 1863) (Dichelia)
oenopa (Meyrick, 1910) (Tortrix)
phaeosticha (Turner, 1939) (Tortrix)
pyrrhula (Meyrick, 1910) (Tortrix)
retractana (Walker, 1863) (Dichelia)
reversana (Walker, 1863) (Dichelia)
scitulana (Walker, 1863) (Teras)
secretana (Walker, 1863) (Teras)
stipularis (Meyrick, 1910) (Tortrix)
vicariana (Walker, 1869) (Dichelia)

Genus ADOXOPHYES Meyrick, 1881

51a0369 A. furcatana (Walker, 1863) (Dichelia) 3690

51a0370 A. negundana (McDunnough, 1923) (Homona) 3691

Genus DITULA Stephens, 1829
ID INFO: Larsen (2015).
BATODES Guenée, 1845
DILUTA; Razowski, 1977 missp.

51a0371 D. angustiorana (Haworth, 1811) (Tortrix) I 3692
NOTE: Introduced from Europe, first found in BC in 1924 (Gillespie & Gillespie 1982); confirmed with DNA barcode data by Gilligan et al. (2020a).
dumeriliana (Duponchel, in: Godart, 1836) (Paedisca)
rotundana (Haworth, 1811) (Tortrix)
saturata (Turati, 1913) (Capua)

Genus XENOTEMNA Powell, 1964
NOTE: Fagua et al. (2018) considered this name to be unavailable, because it was first mentioned in Powell (1964) in an identification key without designation of a type species. However, according to the ICZN, the characters mentioned in the key constitute a sufficient description and *X. pallorana* is the type species by monotypy.

51a0372 X. pallorana (Robinson, 1869) (Tortrix) 3693
lata (Robinson, 1869) (Tortrix)

Tribe SPARGANOTHINI Druce, 1912
ID INFO: Powell & Brown (2012).

Genus AMORBIA Clemens, 1860
HENDECASTEMA Walsingham, 1879
PTYCHAMORBIA Walsingham, 1891

51a0373 A. cuneanum (Walsingham, 1879) (Hendecastema) 3749
adumbranum (Walsingham, 1879) (Hendecastema)
essigana Busck, 1929 (Amorbia)

51a0373.1 A. synneurana Barnes & Busck, 1920 (Amorbia) 3750

51a0374 A. humerosana Clemens, 1860 (Amorbia) 3748

51a0375 A. emigratella Busck, 1910 (Amorbia) [NEW]

51a0376 A. vero Powell & Brown, 2012 (Amorbia) [NEW]

51a0377 A. knudsoni Phillips-Rodriguez & Powell, 2007 (Amorbia) [NEW]

51a0378 A. concavana (Zeller, 1877) (Cacoecia) [NEW]
NOTE: Discovered in NA, in FL, by Hayden (2012).
phaseolana Busck, 1931 (Amorbia)

Genus COELOSTATHMA Clemens, 1860

51a0379 C. discopunctana Clemens, 1860 (Coelostathma) 3747
discipunctana; Walsingham, 1914 (Coelostathma) emend.

51a0380 C. placidana Powell & Brown, 2012 (Coelostathma) [NEW]

Genus SPARGANOPSEUSTIS Powell & Lambert, 1986

51a0381 S. martinana Powell, 1986 (Sparganopseustis) [NEW]

Genus SPARGANOTHOIDES Lambert & Powell, 1986

51a0382 S. hydeana (Klots, 1936) (Sparganothis) 3730

51a0383 S. machimiana (Barnes & Busck, 1920) (Sparganothis) 3729

51a0384 S. lentiginosana (Walsingham, 1879) (Capua) 3731

Genus AMORBIMORPHA Kruse, 2012

51a0385 A. mackayiana Kruse, 2012 (Amorbimorpha) [NEW]

Genus SPARGANOTHIS Hübner, [1825]
AENECTRA Doubleday, 1850
BEGUNNA Walker, 1863
ENODITIS Meyrick, 1912
LEPTORIS Clemens, 1865
OENECTRA Guenée, 1845
OENOPHTHERA; Meyrick, 1913 emend.
OENOPHTHIRA Duponchel, 1845
SPARGANOTIS; Kodama, 1956 missp.
SPARGANYTHIS; Matsumura, 1931 missp.

51a0386 S. caryae (Robinson, 1869) (Tortrix) 3700

51a0387 S. robinsonana Powell & Brown, 2012 (Sparganothis) [NEW]

51a0388 S. tessellata Powell & Brown, 2012 (Sparganothis) [NEW]

51a0389 S. flavibasana (Fernald, 1882) (Oenectra) 3717

51a0390 S. sulfureana (Clemens, 1860) (Croesia) 3695
befrageana; Powell, 1983 (Sparganothis) missp.
belfrageana (Zeller, 1876) (Tortrix) *[3696]*
euphronopa Meyrick, 1927 (Sparganothis)
fulvoroseana (Clemens, 1864) (Croesia)
gallicorana; (Clemens, 1864) (Croesia) missp.
gallivorana (Clemens, 1864) (Croesia)
gratana (Walker, 1863) (Conchylis)
sulphureana; Barnes & Busck, 1920 (Sparganothis) missp.
virgineana; (Zeller, 1876) (Tortrix) missp.
virginiana (Clemens, 1864) (Croesia)

51a0391 S. lycopodiana (Kearfott, 1907) (Epagoge) 3697

51a0392 S. minimetallica Powell & Brown, 2012 (Sparganothis) [NEW]

51a0393 S. bistriata Kearfott, 1907 (Sparganothis) 3698

51a0394 S. tristriata Kearfott, 1907 (Sparganothis) 3699

51a0395 S. demissana (Walsingham, 1879) (Cenopis) 3703

51a0396 S. unifasciana (Clemens, 1864) (Croesia) 3711
puritana (Robinson, 1869) (Tortrix)

51a0397 S. violaceana (Robinson, 1869) (Tortrix) 3710

51a0398 S. xanthoides (Walker, 1863) (Begunna) 3706
ssp. a. xanthoides (Walker, 1863) (Begunna)
breviornatana (Clemens, 1865) (Leptoris)
irrorea (Robinson, 1869) (Tortrix)
ssp. b. inconditana (Walsingham, 1879) (Oenectra)

51a0399 S. boweri Powell & Brown, 2012 (Sparganothis) [NEW]
51a0400 S. taracana Kearfott, 1907 (Sparganothis) 3702
procax Meyrick, 1912 (Sparganothis)
51a0401 S. lindalinea Powell & Brown, 2012 (Sparganothis) [NEW]
51a0402 S. sullivani Powell & Brown, 2012 (Sparganothis) [NEW]
51a0403 S. mcguinnessi Powell & Brown, 2012 (Sparganothis) [NEW]
51a0404 S. niteolinea Powell & Brown, 2012 (Sparganothis) [NEW]
51a0405 S. azulispecca Powell & Brown, 2012 (Sparganothis) [NEW]
51a0406 S. senecionana (Walsingham, 1879) (Oenectra) 3714
rudana (Walsingham, 1879) (Oenectra)
51a0407 S. tunicana (Walsingham, 1879) (Dichelia) 3713
californiana (Walsingham, 1879) (Dichelia)
51a0408 S. vocaridorsana Kearfott, 1905 (Sparganothis) 3712
51a0410 S. umbrana Barnes & Busck, 1920 (Sparganothis) 3715
putmanana Freeman, 1940 (Sparganothis)
51a0411 S. striata (Walsingham, 1884) (Oenectra) 3709
51a0412 S. distincta (Walsingham, 1884) (Oenectra) 3704
salinana McDunnough, 1961 (Sparganothis) *[3708]*
solidana Freeman, 1941 (Sparganothis)
51a0413 S. pulcherrimana (Walsingham, 1879) (Cenopis) 3701
51a0414 S. rubicundana (Herrich-Schäffer, 1856) (Loxotaenia) H 3705
hudsoniana Freeman, 1940 (Sparganothis)
51a0415 S. praecana (Kennel, 1900) (Dichelia) H [NEW]
abiskoana (Caradja, 1916) (Dichelia)
cinereana (Zetterstedt, 1839) (Tortrix)
habeleri Lichtenberger, 1997 (Sparganothis)
lapponana (Caradja, 1916) (Dichelia)
51a0416E S. pilleriana ([Denis & Schiffermüller], 1775) (Tortrix) EXCL. 3719
NOTE: The BC record by ESBC (1906) is thought to be erroneous, as no BC vouchers are known, and this species is otherwise unknown in NA (Powell & Brown 2012).

Genus CENOPIS Zeller, 1876
ID INFO: Powell & Brown (2012); also Brown & Sullivan (2018).

51a0417 C. pettitana (Robinson, 1869) (Tortrix) 3725
acerivorana (MacKay, 1952) (Sparganothis) *[3726]*
51a0418 C. niveana Walsingham, 1879 (Cenopis) 3727
groteana Fernald, 1882 (Cenopis)
51a0419 C. reticulatana (Clemens, 1860) (Croesia) 3720
fulgidipennana (Blanchard, 1840) (Pyralis)
subauratana (Walker, 1863) (Teras)
51a0420 C. ferreana (Busck, 1915) (Sparganothis) [NEW]
51a0421 C. lamberti (Franclemont, 1986) (Sparganothis) [NEW]
51a0422 C. daphnana (McDunnough, 1961) (Sparganothis) 3707
51a0423 C. diluticostana Walsingham, 1879 (Cenopis) 3716
quercana Fernald, 1882 (Cenopis)
51a0423.1 C. croatanensis Brown & Sullivan, 2018 (Cenopis) [NEW]
51a0424 C. unicolorana Powell & Brown, 2012 (Cenopis) [NEW]
51a0425 C. directana (Walker, 1863) (Oenectra) 3722
testulana Zeller, 1876 (Cenopis)
51a0426 C. saracana Kearfott, 1907 (Cenopis) 3724
austera Meyrick, 1912 (Cenopis)
51a0427 C. mesospila Zeller, 1876 (Cenopis) [NEW]
albicaudana (Busck, 1915) (Sparganothis) *[3721]*
gracilana Walsingham, 1879 (Cenopis)
51a0428 C. eulongicosta Powell & Brown, 2012 (Cenopis) [NEW]
51a0429 C. cana (Robinson, 1869) (Tortrix) 3728
51a0430 C. vabroui Powell & Brown, 2012 (Cenopis) [NEW]
51a0431 C. karacana Kearfott, 1907 (Cenopis) 3718
tempestiva (Meyrick, 1912) (Sparganothis)
51a0432 C. chambersana Kearfott, 1907 (Cenopis) 3723

Genus PLATYNOTA Clemens, 1860
CERATORRHINETA Kirby, 1878
CERATORRHYNETA; Razowski, 1977 missp.
CERORRHINETA Zeller, 1877
PATYNOTA; Walsingham, 1914 missp.
PHYLACTERITIS Meyrick, 1922

51a0433 P. idaeusalis (Walker, 1859) (Hypena) 3740
dioptrica (Meyrick, 1922) (Phylacteritis)
sentana Clemens, 1860 (Platynota)
51a0434 P. exasperatana (Zeller, 1876) (Tortrix) 3743
scotiana (McDunnough, 1961) (Sparganothis) *[3742]*
51a0435 P. semiustana Walsingham, 1884 (Platynota) 3741
51a0436 P. rostrana (Walker, 1863) (Teras) 3745
connexana (Walker, 1863) (Teras)
repandana (Walker, 1863) (Teras)
saturatana (Walker, 1863) (Teras)
51a0437 P. wenzelana (Haimbach, 1915) (Amorbia) 3744
51a0438 P. polingi Powell & Brown, 2012 (Platynota) [NEW]
51a0439 P. texana Powell & Brown, 2012 (Platynota) [NEW]
51a0440 P. labiosana (Zeller, 1876) (Tortrix) 3738
51a0441 P. islameconae Powell & Brown, 2012 (Platynota) [NEW]
51a0442 P. blanchardi Powell & Brown, 2012 (Platynota) [NEW]
51a0442.1 P. richersi (Powell & Brown, 2012) (Sparganothis) [NEW]
NOTE: Moved from *Sparganothis* to *Platynota* by Brown (2019c).
51a0443 P. flavedana Clemens, 1860 (Platynota) 3732
concursana (Walker, 1863) (Teras)
iridana Barnes & Busck, 1920 (Platynota)
laterana (Robinson, 1869) (Teras)
tinctana (Walker, 1863) (Teras)
51a0444 P. zapatana Powell & Brown, 2012 (Platynota) [NEW]
51a0445 P. larreana (Comstock, 1939) (Sparganothis) 3735
51a0446 P. yumana (Kearfott, 1907) (Sparganothis) 3734
51a0447 P. redingtonensis Powell & Brown, 2012 (Platynota) [NEW]
51a0448 P. viridana Barnes & Busck, 1920 (Platynota) 3733
51a0449 P. stultana Walsingham, 1884 (Platynota) 3736
NOTE: This species is native to Mexico and possibly southwestern USA (Powell & Brown 2012). Pohl et al. (2016) erroneously reported it as introduced. It has been introduced to Spain (Groenen & Baixeras 2013).
chiquitana Barnes & Busck, 1920 (Platynota)
51a0450 P. nigrocervina Walsingham, 1895 (Platynota) 3737
51a0451 P. calidana (Zeller, 1877) (Tortrix) 3739

Genus SYNNOMA Walsingham, 1879

51a0452 S. lynosyrana Walsingham, 1879 (Synnoma) 3746
linosyrana; Meyrick, 1912 (Synnoma) emend.

Genus NIASOMA Busck, 1940

51a0453 N. metallicana (Walsingham, 1895) (Platynota) 3694

Genus SYNALOCHA Powell, 1985

51a0454 S. gutierreziae Powell, 1985 (Synalocha) [NEW]

Genus SYLLONOMA Powell, 1985

51a0455 S. longipalpana Powell, 1985 (Syllonoma) [NEW]

Tribe ATTERINI Busck, 1932
ID INFO: Powell & Brown (2012).

Genus TINACRUCIS Powell, 1986

51a0456 T. noroesta Powell, 2009 (Tinacrucis) [NEW]

[TORTRICINAE – Unplaced to Tribe]

[TORTRICINAE – NO GENUS]

51a0457e []. retractana (Walker, 1863) (Teras) EXCL.; nom. dub. [NEW]
NOTE: The type has been lost for this species, so it cannot be placed properly. It was described from "USA".

Subfamily OLETHREUTINAE Walsingham, 1895
ID INFO (partial): Heinrich (1923, 1926).

Tribe MICROCORSINI Kuznetzov, 1970

Genus CRYPTASPASMA Walsingham, 1900
ID INFO (partial): Brown & Brown (2004).

Subgenus CRYPTASPASMA Walsingham, 1900
CRYPTOPHASMA; Meyrick, 1930 missp.

51a0458 C. lugubris (Felder & Rogenhofer, 1875) (Penthina) UNVER. [NEW]
NOTE: This species was reported from NA (FL) by Heppner (2007), but TMG has examined the types and disagrees with the determination of known NA specimens.

51a0459 C. bipenicilla Brown & Brown, 2004 (Cryptaspasma) [NEW]

Tribe OLETHREUTINI Walsingham, 1895

Genus ENDOTHENIA Stephens, 1852
ALLOENDOTHENIA Oku, 1963
NEOTHENIA Diakonoff, 1973

51a0460 E. montanana (Kearfott, 1907) (Olethreutes) 2732
kingi McDunnough, 1927 (Endothenia)
51a0461 E. heinrichi McDunnough, 1929 (Endothenia) 2733
51a0462 E. rubipunctana (Kearfott, 1907) (Olethreutes) 2734
51a0463 E. sordulenta Heinrich, 1926 (Endothenia) 2735
51a0464 E. melanosticta (Walsingham, 1895) (Penthina) 2736
flavillana (Dyar, 1903) (Epinotia)
51a0465 E. affiliana McDunnough, 1942 (Endothenia) 2737
51a0466 E. hebesana (Walker, 1863) (Sciaphila) 2738
daeckeana (Kearfott, 1907) (Olethreutes) *[2739]*
fullerea (Riley, 1870) (Penthina)
gentianaeana of authors; (not Hübner, [1799]) (Tortrix) misid. *[2744]*
NOTE: The Nearctic specimens referred to by Beebe (1954) were misidentified (Miller 1983) and refer to *E. hebesana*; this species is not present in NA (Gilligan et al. 2020a).
inexpertana (Walker, 1863) (Carpocapsa)
torquata (Meyrick, 1927) (Argyroploce)
51a0467 E. conditana (Walsingham, 1879) (Penthina) 2740
51a0468 E. microptera Clarke, 1953 (Endothenia) 2741
51a0469 E. infuscata Heinrich, 1923 (Endothenia) 2742
51a0470 E. nubilana (Clemens, 1865) (Siderea) [NEW]
vetulana (Walsingham, 1879) (Sericoris)
51a0471 E. quadrimaculana (Haworth, [1811]) (Tortrix) I 2743
NOTE: Most historical records of this European species in NA refer to *E. nubilana*. However, "true" *E. quadrimaculana* has been introduced to NA recently and it has become established in ON and QC.
antiguana (Hübner, [1811-1813]) (Tortrix)
antiquana; [various, no date] (Endothenia) missp.
helvinana (Kennel, 1900) (Argyroploce)
meinhardiana (Krulikovsky, 1908) (Olethreutes)
obesana (Peyerimhoff, 1863) (Orthotaenia)
pallidana (Caradja, 1916) (Argyroploce)
pallidana (Kennel, 1919) (Argyroploce)

Genus TANIVA Heinrich, 1926

51a0473 T. albolineana (Kearfott, 1907) (Lipoptycha) 2745
abietana (Fernald, 1908) (Argyroploce)
piceae (Busck, 1916) (Olethreutes)

Genus TIA Heinrich, 1926

51a0474 T. enervana (Erschoff, 1877) (Penthina) H [NEW]
NOTE: Recognized as Holarctic by Jalava & Miller (1998).
vulgana (McDunnough, 1922) (Argyroploce) *[2746]*

Genus HULDA Heinrich, 1926

51a0475 H. impudens (Walsingham, 1884) (Penthina) 2747

Genus BACTRA Stephens, 1834
ID INFO: Diakonoff (1964); also Powell (1997).

Subgenus BACTRA Stephens, 1834
APHELIA Stephens, 1829
BRACTA; Pierce & Metcalfe, 1922 missp.
LEPTIA Guenée, 1845
PROTOBACTRA Diakonoff, 1964

51a0476 B. lancealana (Hübner, [1799]) (Tortrix) H 2705
dibeliana (Hübner, [1818-1819]) (Tortrix)
egestana (Haworth, 1811) (Tortrix)
fumosana Kennel, 1901 (Bactra)
lanceana (Frölich, 1828) (Tortrix)
lanceolana (Hübner, [1825]) (Ancylis)
mongolica Diakonoff, in: Razowski, 1972 (Bactra)
nigrovittana Stephens, 1852 (Bactra)
pauperana (Haworth, 1811) (Tortrix)
plagana (Haworth, 1811) (Tortrix)
rufana (Stephens, 1834) (Carpocapsa)
signana (Herrich-Schäffer, 1851) (Tortrix)
suspensa Diakonoff, 1962 (Bactra)

51a0477 B. furfurana (Haworth, 1811) (Tortrix) H 2706
acutana (Eversmann, 1844) (Cochylis)
canuisana (Millière, 1874) (Sciaphila)
helophaea Meyrick, 1928 (Bactra)
iranica Diakonoff, 1959 (Bactra)
kurentsovi Diakonoff, 1962 (Bactra)
lamana (Lienig & Zeller, 1846) (Phoxopteris)
longinqua Diakonoff, 1959 (Bactra)
scirpana (Herrich-Schäffer, 1851) (Tortrix)

Subgenus NANNOBACTRA Diakonoff, 1956

51a0477.1 B. maiorina Heinrich, 1923 (Bactra) 2708
51a0478 B. verutana Zeller, 1876 (Bactra) extralim. 2707
ssp. a. chrysea Heinrich, 1926 (Bactra)
51a0482 B. sinistra Heinrich, 1926 (Bactra) 2710
51a0482.1 B. cultellana Zeller, 1877 (Bactra) [NEW]
NOTE: Records of this species in FL, reported in Diakonoff (1964), have been overlooked by Nearctic workers. They were rediscovered recently by SRN.
51a0482.2 B. albipuncta Heinrich, 1926 (Bactra) [NEW]
NOTE: Diakonoff (1964) elevated this taxon to species status, but that was missed by subsequent authors. It was listed as a subspecies of *B. verutana* by Powell (in Hodges et al. 1983).
51a0482.3 B. miwok Powell, 1997 (Bactra) [NEW]
NOTE: Listing by Pohl et al. (2016) as a synonym of the New Guinea species *B. misoolensia* was a databasing error. This is a valid NA species.
misoolensia of authors; not Diakonoff, 1956 (Bactra) misappl.

Subgenus CHILOIDES Butler, 1881

51a0482.4 B. priapeia Heinrich, 1923 (Bactra) 2709
NOTE: This species is native to FL, LA, and TX; it has been introduced to coastal southern CA (Powell 1997).
51a0482.5 B. philocherda Diakonoff, 1964 (Bactra) [NEW]
NOTE: This species, described in Diakonoff (1964), has been overlooked by Nearctic workers until recently. Specimens from FL are among the paratypes (contributed by Kyhl Austin).
philerocherda; Brown & Lewis, 2001 (Bactra) missp.

Genus EPISIMUS Walsingham, 1892
ID INFO: Heppner (1994); also Razowski & Brown (2008), Heppner (2018).
ANTICTENISTA Meyrick, 1927
EPISEMUS; Dyar, 1901 missp.
EPISIMOIDES Diakonoff, 1957

51a0483 E. tyrius Heinrich, 1923 (Episimus) 2703
51a0484 E. lagunculariae Heppner, 1994 (Episimus) [NEW]
51a0485 E. argutana (Clemens, 1860) (Bactra) 2701
allutana (Zeller, 1876) (Grapholitha)
hamameliella (Clemens, [1862]) (Catastega)
51a0486 E. guiana (Busck, 1913) (Olethreutes) [NEW]
51a0487 E. nesiotes Walsingham, 1897 (Episimus) [NEW]
nesoites; [various, no date] (Episimus) missp.
51a0488 E. kimballi Heppner, 1994 (Episimus) [NEW]
51a0489 E. burserae Heppner, 1994 (Episimus) [NEW]
51a0490 E. augmentana (Zeller, 1877) (Grapholitha) 2702
augmentus (Kimball, 1965) (Grapholitha)
51a0491 E. transferrana (Walker, 1863) (Carpocapsa) [NEW]
vincentana (Walker, 1863) (Carpocapsa)
51a0491.1 E. dickeli Heppner, [2019] 2018 (Episimus) [NEW]
51a0491.2 E. rufatus Razowski & Brown, 2008 (Episimus) [NEW]
NOTE: This species, described from Jamaica, is a new addition to the NA fauna, based on recent FL records (contributed by JEH).

Genus CACOCHARIS Walsingham, 1892
ID INFO: Brown (2008).

51a0492 C. cymotoma (Meyrick, 1917) (Argyroploce) 2704
canofascia (Forbes, 1930) (Olethreutes)
51a0492.1 C. albimacula Walsingham, 1892 (Cacocharis) [NEW]
NOTE: Reported from FL by Heppner (2008a).
albimaculana (Forbes, 1930) (Olethreutes)

Genus PARALOBESIA Obraztsov, 1953
ID INFO: Royals et al. (2019).

51a0492.5 P. parsaura Royals & Gilligan, 2019 (Paralobesia) [NEW]
51a0493 P. liriodendrana (Kearfott, 1904) (Polychrosis) 2711
51a0493.1 P. albiterminana Royals & Dang, 2019 (Paralobesia) [NEW]
51a0493.15 P. cyclopiana (Heinrich, 1926) (Polychrosis) 2727
51a0493.2 P. carduana (Busck, 1907) (Polychrosis) 2728
51a0493.25 P. crassa Royals & Gilligan, 2019 (Paralobesia) [NEW]

51a0493.3 P. blandula (Heinrich, 1926) (Polychrosis) 2726
51a0493.35 P. aemulana (Heinrich, 1926) (Polychrosis) 2722
51a0493.4 P. wrighti Royals & Gilligan, 2019 (Paralobesia) [NEW]
51a0493.45 P. dividuana Royals & Gilligan, 2019 (Paralobesia) [NEW]
51a0493.5 P. rougemontensis Royals & Gilligan, 2019 (Paralobesia) [NEW]
51a0493.55 P. monslata Royals & Gilligan, 2019 (Paralobesia) [NEW]
51a0494 P. viteana (Clemens, 1860) (Endopiza) 2712
vitivorana (Packard, 1869) (Penthina)
51a0494.1 P. ridingensis Royals & Gilligan, 2019 (Paralobesia) [NEW]
51a0495 P. monotropana (Heinrich, 1926) (Polychrosis) 2713
51a0495.1 P. spiraeifoliana (Heinrich, 1923) (Polychrosis) 2718
51a0497 P. cypripediana (Forbes, 1924) (Polychrosis) 2715
51a0498 P. rhoifructana (Kearfott, 1904) (Polychrosis) 2716
51a0498.1 P. pallicircula Royals & Gilligan, 2019 (Paralobesia) [NEW]
51a0498.2 P. marilynae Royals & Gilligan, 2018 (Paralobesia) [NEW]
51a0498.3 P. landryi Royals & Gilligan, 2019 (Paralobesia) [NEW]
51a0498.4 P. wontonana Royals & Gilligan, 2019 (Paralobesia) [NEW]
51a0504 P. vernoniana (Kearfott, 1907) (Polychrosis) 2723
ambrosiana (Kearfott, 1907) (Polychrosis)
51a0504.1 P. sambuci (Clarke, 1953) (Polychrosis) 2714
51a0504.2 P. crispans Royals & Gilligan, 2019 (Paralobesia) [NEW]
51a0504.3 P. worthi Royals & Gilligan, 2019 (Paralobesia) [NEW]
51a0504.4 P. palliolana (McDunnough, 1938) (Polychrosis) 2720
piceana (Freeman, 1941) (Polychrosis) [2721]
51a0504.5 P. alafusca Royals & Gilligan, 2019 (Paralobesia) [NEW]
51a0504.6 P. annetteae Royals & Gilligan, 2019 (Paralobesia) [NEW]
51a0505 P. aruncana (Kearfott, 1907) (Polychrosis) 2724
51a0505.1 P. exasperana (McDunnough, 1938) (Polychrosis) 2719
51a0505.2 P. glenni Royals & Gilligan, 2019 (Paralobesia) [NEW]
51a0505.3 P. hodgesi Royals & Gilligan, 2019 (Paralobesia) [NEW]
51a0505.4 P. kearfotti Royals & Gilligan, 2019 (Paralobesia) [NEW]
51a0505.5 P. maculana Royals & Gilligan, 2019 (Paralobesia) [NEW]
51a0505.6 P. magnoliana (Kearfott, 1907) (Polychrosis) [NEW]
51a0505.7 P. moritzi Royals & Gilligan, 2019 (Paralobesia) [NEW]
51a0505.8 P. pallida Royals & Gilligan, 2019 (Paralobesia) [NEW]
51a0505.9 P. piperae Royals & Gilligan, 2019 (Paralobesia) [NEW]
51a0506 P. slingerlandana (Kearfott, 1904) (Polychrosis) 2725
51a0506.1 P. tenuis Royals & Gilligan, 2019 (Paralobesia) [NEW]
51a0506.2 P. yaracana (Kearfott, 1907) (Polychrosis) 2717
signifera (Meyrick, 1912) (Polychrosis)

Genus LOBESIODES Diakonoff, 1954

51a0510 L. euphorbiana (Freyer, 1842) (Sericoris) I [NEW]
NOTE: Introduced from Europe for biocontrol of Leafy Spurge (*Euphorbia esula* L.; Euphorbiaceae); first brought to SK in 1983 (Maw 1984; McClay et al. 1995; Bourchier et al. 2002).

Genus LOBESIA Guenée, 1845

Subgenus LOBESIA Guenée, 1845
BYRSOPTERA Lower, 1901
PIRIREISIA Koçak, 1981
POLYCHROSIS Ragonot, 1894
STERIOPHOTIS; Bradley, 1961 missp.
STERIPHOTIS Meyrick, 1911

51a0510.5 L. spiraeae (McDunnough, 1938) (Polychrosis) 2729
NOTE: Royals et al. (2019) found that specimens of *bicinctana* from Europe and NA represent separate species; Gilligan et al. (2020a) elevated *spiraeae* to species to apply to NA populations.
bicinctana of authors; (not Duponchel, 1843) (Grapholitha) misappl.
51a0513X L. botrana ([Denis & Schiffermüller], 1775) (Tortrix) EXTIRPATED I [NEW]
NOTE: Introduced from Europe to CA in 2008 (Gilligan et al. 2011a); declared eradicated by the United States Department of Agriculture and no longer present in CA in 2016.
rosmarinana (Millière, 1865) (Olindia)
vitisana (Jacquin, 1789) (Phalaena)

Genus AHMOSIA Heinrich, 1926

51a0514 A. galbinea Heinrich, 1926 (Ahmosia) 2730
51a0515 A. aspasiana (McDunnough, 1922) (Argyroploce) 2731

Genus ATERPIA Guenée, 1845
ADIAKONOFFIA Özdikmen, 2008
APELEPTERA Diakonoff, 1973
ASAPHISTIS Meyrick, 1909
ESIA Heinrich, 1926
LEPTOCERA Diakonoff, 1983

51a0516 A. approximana (Heinrich, 1919) (Olethreutes) 2748

Genus EUMAROZIA Heinrich, 1926
ID INFO: Clarke (1973).

51a0517 E. malachitana (Zeller, 1876) (Grapholitha) 2749

Genus ZOMARIA Heinrich, 1926

51a0518 Z. interruptolineana (Fernald, 1882) (Penthina) 2750
51a0519 Z. rosaochreana (Kearfott, 1907) (Olethreutes) emend. 2751
rosaschreana; (Kearfott, 1907) (Olethreutes) orig. missp.
51a0520 Z. andromedana (Barnes & McDunnough, 1917) (Olethreutes) 2752

Genus APOTOMIS Hübner, [1825]
ID INFO: Adamski & Peters (1986).
ANTITHESIA Stephens, 1829
APHANIA Hübner, 1825
BRACHYTAENIA Stephens, 1852
LIMMA Hübner, 1825

51a0521 A. funerea (Meyrick, 1920) (Argyroploce) 2755
youngana (McDunnough, 1922) (Argyroploce)
51a0522 A. albeolana (Zeller, 1876) (Penthina) 2763
51a0523 A. removana (Kearfott, 1907) (Olethreutes) 2768
dextrana (McDunnough, 1923) (Aphania) [2766]
51a0524 A. apateticana (McDunnough, 1922) (Argyroploce) 2764
deceptana (McDunnough, 1922) (Argyroploce)
51a0525 A. tertiana (McDunnough, 1922) (Argyroploce) 2759
strigosa (Heinrich, 1926) (Aphania) [2762]
51a0526 A. afficticia (Heinrich, 1926) (Aphania) 2761
51a0527 A. bifida (McDunnough, 1938) (Aphania) 2760
51a0528 A. capreana (Hübner, [1817]) (Tortrix) H 2753
51a0529 A. deceptana (Kearfott, 1905) (Olethreutes) 2765
salicaceana (Freeman, 1957) (Aphania)
51a0530 A. coloradensis Adamski, 1986 (Apotomis) [NEW]
51a0531 A. paludicolana (Brower, 1953) (Aphania) 2754
51a0532 A. frigidana (Packard, 1867) (Penthina) 2756
moeschleri (Kennel, 1900) (Penthina)
51a0533 A. brevicornutana (McDunnough, 1938) (Aphania) 2758
51a0534 A. spinulana (McDunnough, 1938) (Aphania) 2757
51a0535 A. trifida Adamski, 1986 (Apotomis) [NEW]
51a0536 A. infida (Heinrich, 1926) (Aphania) H 2767
51a0537 A. spurinfida Adamski, 1986 (Apotomis) [NEW]

Genus CYMOLOMIA Lederer, 1859
ID INFO: McGuinness & Brown (2017).

51a0537.5 C. hartigiana (Ratzeburg, 1840) (Phalaena) I [NEW]
NOTE: A recent NA record, based on multiple specimens captured on Long Island, NY from 2007 to 2016 (McGuinness & Brown 2017).
faillana Fuchs, 1903 (Cymolomia)

Genus MEGALOTA Diakonoff, 1966
ID INFO: Brown (2009).

51a0537.7 M. submicans (Walsingham, 1897) (Episimus) [NEW]
NOTE: The identity of the sole NA *Megalota* specimen is uncertain; it was tentatively identified as *M. submicans* by Brown (2009), but it may in fact represent an undescribed species (JWB).

Genus PSEUDOSCIAPHILA Obraztsov, 1966

51a0538 P. duplex (Walsingham, 1895) (Penthina) 2769
thallasana (McDunnough, 1922) (Argyroploce)

Genus ORTHOTAENIA Stephens, 1829
BADEBECIA Heinrich, 1926

51a0539 O. undulana ([Denis & Schiffermüller], 1775) (Tortrix) H 2770
NOTE: Holarctic (Razowski 2003); confirmed with DNA barcode data by Gilligan et al. (2020a). DNA barcode data suggest that "true" *O. undulana* is restricted to AK in NA, and that specimens identified as this species from the rest of the USA and Canada may represent one or more undescribed species.
aemulana (Hübner, [1825] 1816) (Celypha)
campestrana (Zeller, 1876) (Sericoris)
dilutifuscana (Walsingham, 1879) (Sericoris)
griseistruatana (Bruand, 1850) (Sericoris)
rufa (Tutt, 1889) (Sericoris)
urticana (Hübner, 1799) (Tortrix)

Genus PHAECASIOPHORA Grote, 1873
MEGASYCA Diakonoff, 1959

51a0540 P. confixana (Walker, 1863) (Sciaphila) 2771
mutabilana (Clemens, 1865) (Sericoris)
perductana (Walker, 1863) (Sciaphila)
51a0541 P. niveiguttana Grote, 1873 (Phaecasiophora) 2772
51a0542 P. inspersa Heinrich, 1931 (Phaecasiophora) 2773

Genus OLETHREUTES Hübner, 1822
ID INFO (partial): Heinrich (1926); also Miller (1979, 1985a), Jalava & Miller (1998), Miller & Jalava (2000).
NOTE: The taxonomy of the NA species of "*Olethreutes*" does not agree with European concepts. Although Brown (2005) made some progress toward resolving discrepancies in the generic assignments between the NA and European faunas in *Olethreutes* and related genera, nearly all of the NA species remaining in *Olethreutes* would be assigned to either *Phiaris* or *Argyroploce* as defined in the most recent European checklist (Aarvik 2017). We generally agree with the European treatment, and follow Aarvik. (2017) and other Eurasian sources (see individual species notes below) for Holarctic species, but we refrain from making extensive changes in generic assignment to the remaining NA species until there is a comprehensive worldwide revision of the group that includes all of these taxa.
EXARTEMA Clemens, 1860
MIXODIA Guenée, 1845
ROXANA Stephens, 1834

51a0543 O. monetiferanum (Riley, 1881) (Exartema) 2774
51a0544 O. nitidana (Clemens, 1860) (Exartema) 2775
51a0545 O. furfuranum (McDunnough, 1922) (Exartema) 2776
51a0546 O. comandranum (Clarke, 1953) (Exartema) 2777
51a0547 O. olivaceana (Fernald, 1882) (Eccopis) 2778
bolandanum (McDunnough, 1922) (Exartema)
51a0548 O. fraternanum (McDunnough, 1922) (Exartema) 2779
51a0549 O. subnubilum (Heinrich, 1923) (Exartema) 2780
51a0550 O. electrofuscum (Heinrich, 1923) (Exartema) 2781
51a0551 O. rusticanum (McDunnough, 1922) (Exartema) 2782
51a0552 O. trepidulum (Heinrich, 1926) (Exartema) REV. STAT. [NEW]
NOTE: This species is hereby recognized to be distinct from *O. diallacta*. Heinrich (1926) recognized that two species were confused under the name *zelleriana*, which was historically applied to this species as well as to the species now known as *O. diallacta*. This non-*Betula*-feeding (Betulaceae) species was treated erroneously as "*Exartema zelleriana*" by Kearfott in an unpublished manuscript; Heinrich recognized that it was distinct from Fernald's "*zelleriana*", and described it as *Exartema trepidulum*.
zelleriana of authors; (not Fernald, 1882) (Eccopis) misappl. *[2783]*
51a0552.1 O. diallacta (Meyrick, 1932) (Argyroploce) [NEW]
NOTE: This name applies to the species that feeds on *Betula* (Betulaceae), which was confused with the species now known as *O. trepidulum* prior to Heinrich (1926); see details under that species. The name *diallacta* was proposed as a replacement name for *zelleriana* (Fernald, 1882). Fernald had proposed the name *zelleriana* for *nitidana* sensu Zeller, 1875, which Fernald had recognized as a species distinct from *O. nitidana*. However Fernald's name has no type or description, so it is a nomen nudum. Meyrick (1932) proposed *Argyroploce diallacta* as a replacement name, because *A. zelleriana* (Fernald, 1882) was preoccupied in *Argyroploce* by *A. zelleriana* (Erschoff, 1874) (now placed in *Clepsis*). Although the Fernald name is no longer preoccupied, as a nomen nudum it still requires a replacement, so *O. diallacta* becomes the valid name for this species.
betulana (Heinrich, 1926) (Exartema) nom. nud. *[2798]*
nitidana of Zeller, 1875; (not Clemens, 1860) (Exartema) misid.
zelleriana (Fernald, 1882) (Eccopis) nom. nud.
51a0553 O. footiana (Fernald, 1882) (Eccopis) 2784
51a0554 O. atrodentana (Fernald, 1882) (Eccopsis) 2785
51a0555 O. punctanum (Walsingham, 1903) (Exartema) 2786
connanum (Heinrich, 1923) (Exartema)
connutana (Heinrich, 1923) (Exartema)
cornanum (Heinrich, 1926) (Exartema)
51a0556 O. connectum (McDunnough, 1935) (Exartema) 2787
punctanum of authors; (not Walsingham, 1903) (Exartema) misid.
NOTE: This misidentification by Heinrich (1926) has persisted in collections and subsequent literature for many years.
51a0557 O. inornatana (Clemens, 1860) (Exartema) 2788
51a0558 O. mediopartitum (Heinrich, 1923) (Exartema) 2790
51a0559 O. exoletum (Zeller, 1876) (Exartema) 2791
51a0560 O. bicoloranum (McDunnough, 1922) (Exartema) 2792
51a0561 O. tenebricum (Heinrich, 1926) (Exartema) 2793
51a0562 O. quadrifidum (Zeller, 1876) (Exartema) 2794
51a0563 O. tilianum (Heinrich, 1923) (Exartema) 2795
51a0564 O. sciotana (Heinrich, 1923) (Exartema) 2796
51a0565 O. appalachiana (Braun, 1951) (Exartema) 2797
51a0566 O. clavana (Walker, 1863) (Carpocapsa) 2799
51a0567 O. mysteriana Miller, 1979 (Olethreutes) [NEW]
clavana of authors; (not Walker, 1863) (Carpocapsa) misid.
NOTE: This misidentification by Heinrich (1926) was repeated by many subsequent workers until it was corrected by Miller (1979).
51a0568 O. nigranum (Heinrich, 1923) (Exartema) 2800
ornatana (Kearfott, 1910) (Cymolomia)
51a0569 O. viburnanum (McDunnough, 1935) (Exartema) 2801
51a0570 O. hippocastanum (Kearfott, 1907) (Exartema) 2802
51a0571 O. merrickana (Kearfott, 1907) (Exartema) 2803
51a0572 O. hamameliana (McDunnough, 1944) (Exartema) 2804
51a0573 O. corylana (Fernald, 1882) (Eccopis) 2805
51a0574 O. ochrosuffusanum (Heinrich, 1923) (Exartema) 2806
51a0575 O. brunneopurpurata (Heinrich, 1923) (Exartema) 2807
51a0576 O. ferrugineanum (Riley, 1881) (Exartema) 2808
51a0577 O. fagigemmeana (Chambers, 1878) (Exartema) 2809
51a0578 O. sericoranum (Walsingham, 1879) (Exartema) 2810
myricana Kearfott, 1910 (Olethreutes)
51a0579 O. melanomesum (Heinrich, 1923) (Exartema) 2811
nortanum (Kearfott, 1910) (Cymolomia)
51a0580 O. valdanum (McDunnough, 1922) (Exartema) 2812
micantana (Forbes, 1923) (Cymolomia)
51a0581 O. baccatanum (McDunnough, 1942) (Exartema) 2813
51a0582 O. versicolorana (Clemens, 1860) (Exartema) 2814
51a0583 O. brevirostratum (Heinrich, 1926) (Exartema) 2815
51a0584 O. galevora (McDunnough, 1956) (Exartema) 2816
51a0585 O. permundana (Clemens, 1860) (Exartema) 2817
gaylussaciana (Kearfott, 1910) (Cymolomia)
meanderana (Walker, 1863) (Sciaphila)
51a0586 O. submissanum (McDunnough, 1922) (Exartema) 2818
51a0587 O. nananum (McDunnough, 1922) (Exartema) 2819
quebecense (Heinrich, 1923) (Exartema)
51a0588 O. malana (Fernald, 1882) (Eccopis) 2820
51a0589 O. appendiceum (Zeller, 1876) (Exartema) 2821
51a0590 O. concinnana (Clemens, 1865) (Sericoris) 2822
foedana (Clemens, 1865) (Sericoris)
terminanum (McDunnough, 1922) (Exartema)
51a0591 O. fasciatana (Clemens, 1860) (Exartema) 2823
albofasciatum (Zeller, 1876) (Exartema)
decisana (Walker, 1862) (Sciaphila)
51a0592 O. troglodanum (McDunnough, 1922) (Exartema) 2824
51a0593 O. exaeresimum (Heinrich, 1926) (Exartema) 2825
51a0594 O. lacunanum (Freeman, 1941) (Exartema) 2826
51a0595 O. ferriferana (Walker, 1863) (Sciaphila) 2827
gratiosana (Clemens, 1865) (Sericoris)
usticana (Zeller, 1876) (Grapholitha)
51a0596 O. griseoalbana (Walsingham, 1879) (Exartema) 2828
51a0597 O. osmundana (Fernald, 1879) (Penthina) 2829
ochromediana Kearfott, 1907 (Olethreutes)
51a0598 O. auricapitana (Walsingham, 1879) (Sericoris) 2830
51a0599 O. albiciliana (Fernald, 1882) (Sericoris) 2832
51a0600 O. sordidana (McDunnough, 1922) (Argyroploce) 2834
51a0601 O. galaxana Kearfott, 1907 (Olethreutes) 2835
glitranana Kearfott, 1907 (Olethreutes)
51a0602 O. astrologana (Zeller, 1876) (Sericoris) 2837
coronana (Kearfott, 1907) (Anchylopera)
51a0603 O. coruscana (Clemens, 1860) (Antithesia) 2838
constellatana (Zeller, 1876) (Sericoris) *[2836]*
puncticostana (Walker, 1863) (Sericoris) *[2839]*
51a0604 O. ferrolineana (Walker, 1863) (Carpocapsa) [NEW]
argyroelana (Zeller, 1876) (Sericoris)
51a0609 O. deprecatoria Heinrich, 1926 (Olethreutes) 2844
51a0610 O. carolana (McDunnough, 1922) (Argyroploce) 2845

51a0611 O. polluxana (McDunnough, 1922) (Argyroploce) 2846
51a0613 O. bipartitana (Clemens, 1860) (Antithesia) 2848
caesialbana (Zeller, 1876) (Sericoris)
similisana (Walker, 1863) (Penthina)
51a0614 O. trinitana (McDunnough, 1931) (Argyroploce) 2849
51a0619 O. bowmanana (McDunnough, 1923) (Argyroploce) 2854
51a0621 O. costimaculana (Fernald, 1882) (Penthina) 2856
roseomaculana of authors; (not Herrich-Schäffer, 1851) (Tortrix) misappl.
51a0622 O. devotana Kearfott, 1907 (Olethreutes) 2857
51a0623 O. buckellana (McDunnough, 1922) (Argyroploce) 2858
ssp. a. buckellana (McDunnough, 1922) (Argyroploce)
ssp. b. albidula Heinrich, 1926 (Olethreutes)

Genus PHIARIS Hübner, [1825]
NOTE: We follow Aarvik (2017) and place these Holarctic species in *Phiaris* rather than *Olethreutes*. See note under *Olethreutes* for details.

51a0626 P. bipunctana (Fabricius, 1794) (Pyralis) H [NEW]
NOTE: Landry et al. (2013) reported this species from NA, also confirmed by DNA barcode data. Gilligan et al. (2020a) place this species in *Phiaris*, with *P. glaciana*.
castorana (McDunnough, 1922) (Argyroploce)
NOTE: Moved from synonym of *P. glaciana* by Nedoshivina (2016).
yama (Kawabe, 1974) (Olethreutes)
51a0626.1 P. dissolutana (Stange, 1886) (Sericoris) H [NEW]
NOTE: This species was historically known in NA as *Olethreutes minaki*, which was synonymized with *P. dissolutana* by Nedoshivina (2016).
minaki (McDunnough, 1929) (Argyroploce) [2843]
51a0626.2 P. glaciana (Möschler, 1860) (Sericoris) 2847
NOTE: Although this taxon has been listed as Holarctic in the past (e.g., Lafontaine & Wood 1997), Gilligan et al. (2020a) could find no evidence of this species occurring outside of NA. Gilligan et al. (2020a) transferred it to *Phiaris* based on morphological and molecular data.
dealbana (Walker, 1863) (Penthina)
fuscalbana (Zeller, 1876) (Sericoris)
51a0626.3 P. heinrichana (McDunnough, 1927) (Argyroploce) H 2842
hyperboreana (Karvonen, 1932) (Argyroploce)
51a0626.4 P. inquietana (Walker, 1863) (Paedisca) H 2853
hepialana (Kennel, 1900) (Penthina)
hoyoshi (Rebel, 1911) (Cnephasia)
retortimacula (Filipjev, 1929) (Olethreutes)
51a0626.5 P. metallicana (Hübner, 1796) (Tortrix) H? [NEW]
NOTE: Miller (1985a) synonymized the taxa *murina* and *major* with *P. metallicana*. However, although the DNA barcode data are not conclusive, they seem to suggest that the NA and European populations are likely different species (Gilligan et al. 2020a).
amurensis (Caradja, 1916) (Argyroploce)
asiaticus (Caradja, 1916) (Argyroploce)
bicornutana (Kuznetzov, 1971) (Olethreutes)
ferruginea (Tengström, 1869) (Penthina)
lobarzewskii (Nowicki, 1864) (Grapholitha)
major (Walsingham, 1895) (Penthina)
murina (Packard, 1867) (Penthina)
porphyrana (de la Harpe, 1858) (Sericoris)
puncticostana of authors; (not Walker, 1863) (Sericoris) misid.
NOTE: This was a misidentification by Heinrich (1926) that resulted in long-term problems in many NA collections.
zebrawskii (Nowicki, 1864) (Grapholitha)
51a0626.6 P. nordeggana (McDunnough, 1922) (Argyroploce) H 2840
NOTE: This species was placed in *Phiaris* by Razowski (2003). The report of the Palaearctic species *Olethreutes* (=*Phiaris*) *obsoletana* in NA by Miller (1985a) is based on a previous taxonomic arrangement and refers to *P. nordeggana*.
kennethana (McDunnough, 1941) (Olethreutes) [2841]
obsoletana of authors; (not Zetterstedt, 1839) (Tortrix) misappl.
51a0626.7 P. palustrana (Lienig & Zeller, 1846) (Sericoris) H [NEW]
mendosana (de la Harpe, 1858) (Sericoris)
puerilana (Heinemann, 1863) (Sericoris)
raneniana (Strand, 1920) (Argyroploce)
valesiana (Rebel, 1906) (Argyroploce)
51a0626.8 P. schulziana (Fabricius, 1777) (Pyralis) H 2850
ahrensiana (Hübner, [1832-1833]) (Tortrix)
bentleiana (Donovan, [1801]) (Phalaena)
jivaarana (Hoffmann, 1893) (Penthina)
pinetana (Hübner, [1796-1799]) (Tortrix)
regularis (Strand, 1920) (Argyroploce)
zinkeana (Frölich, 1828) (Tortrix)
51a0626.9 P. septentrionana (Curtis, 1835) (Orthotaenia) H 2852
fulvifrontana (Packard, 1867) (Penthina)
primariana (Walker, 1863) (Sciaphila)
schaefferana (Herrich-Schäffer, 1851) (Tortrix)
51a0626.95 P. turfosana (Herrich-Schäffer, 1851) (Tortrix) H [NEW]
NOTE: Recognized as Holarctic and added to the NA fauna by Jalava & Miller (1998); DNA barcode data are of limited use because of identification issues (Gilligan et al. 2020a).
boreana (Rebel, 1901) (Olethreutes)
intermistana (Clemens, 1865) (Mixodia) [2851]
septentrionana (Möschler, 1883) (Penthina)
tessellana (Packard, 1867) (Penthina)

Genus CELYPHA Hübner, [1825]
CELYPA; Pierce & Metcalfe, 1922 missp.
CELYPHOIDES Agenjo, 1955
CELYPHOIDES Obraztsov, 1960
EUCHROMIA Stephens, 1829
LOXOTERMA Busck, 1906

a0629 C. cespitana of authors; (not Hübner, [1817]) (Tortrix) MISAPPL. 2859
NOTE: This species appears to be extralimital (Palaearctic) based on DNA barcode evidence in Gilligan et al. (2020a), but we continue to use the name *Celypha cespitana* here as a placeholder. BOLD data support the conclusion that the widespread NA species we currently know as *C. cespitana* is a separate species. A formal split could result in the elevation of *Celypha instrutana*, currently a synonym of *C. cespitana*, to full species. Further taxonomic work is required.
flavofasciana (Humphreys & Westwood, 1844) (Rhyacionia)
instrutana (Clemens, 1865) (Sericoris)
poana (Zeller, 1876) (Sericoris)
51a0629.5 C. lacunana ([Denis & Schiffermüller], 1775) (Tortrix) H [NEW]
NOTE: This species is newly recorded from NA based on DNA barcodes and a specimen from OR identified by genitalic dissection (Gilligan et al. 2020a).
alternana (Curtis, 1831) (Orthotaenia)
alticola (Gibeaux, 1990) (Syricoris)
decussana (Fabricius, 1775) (Pyralis)
fuscoapicalis (Strand, 1901) (Sericoris)
herbana (Guenée, 1845) (Sericoris)
hoffmanniana (Teich, 1890) (Penthina)
lucivaganoides (Strand, 1920) (Argyroploce)
pallidana (Hauder, 1918) (Olethreutes)
rooana (Degraff, 1861) (Sericoris)
symmathetes (Caradja, 1916) (Argyroploce)
a0629.6 C. siderana (Treitschke, 1835) (Olethreutes) H 2833
NOTE: This species has been variously placed in *Celypha*, *Olethreutes*, *Phiaris*, and *Syricoris*. We place it in *Celypha* following Aarvik (2017).
aurana (Caradja, 1939) (Argyroploce)
chalybeana (Walsingham, 1879) (Sericoris)
notata (Walsingham, 1900) (Argyroploce)

Genus PRISTEROGNATHA Obraztsov, 1960

51a0630.5 P. agilana (Clemens, 1860) (Endopiza) 2831
fuligana of authors; (not [Denis & Schiffermüller], 1775) (Tortrix) misappl.
NOTE: Old World name that has been used in error in NA; corrected by Miller (1985a).

Genus ARGYROPLOCE Hübner, [1825]
ID INFO: Razowski (2003).
ARGYLOPLOCE; Matsumura, 1931 missp.
ARGYPLOCE; Diakonoff, 1953 missp.

51a0631 A. aquilonana Karvonen, 1932 (Argyroploce) H [NEW]
NOTE: Holarctic (Jalava & Miller 1998); confirmed with DNA barcode data by Gilligan et al. (2020a).
helvomaculana (Kostiuk, 1975) (Selenodes)
kononenkoi (Kuznetzov, 1991) (Olethreutes)
51a0631.1 A. concretana (Wocke, 1862) (Penthina) H [NEW]
NOTE: Recognized as Holarctic and added to the NA fauna by Jalava & Miller (1998); confirmed with DNA barcode data by Gilligan et al. (2020a). It was placed in *Selenodes* therein, but here we follow Aarvik (2017) and place it in *Argyroploce*.
stagnicolana (Preissecker, 1914) (Olethreutes)
51a0632 A. externa (Eversmann, 1844) (Paedisca) H [NEW]
NOTE: Recognized as Holarctic and added to the NA fauna by Jalava & Miller (1998; as "*Olethreutes dalecarlianus*"); confirmed with DNA barcode data by Gilligan et al. (2020a). Nedoshivina (2007) synonymized *dalecarliana* with *A. externa*.
dalecarliana (Guenée, 1845) (Selenodes)
51a0632.1 A. lediana (Linnaeus, 1758) (Phalaena) H [NEW]
NOTE: New NA record added based on YT Beringian material collected in 2017 and identified by GRP via dissection and DNA barcode data.

lienigiana (Lienig & Zeller, 1846) (Penthina)
szmyti Toll, 1957 (Argyroploce)
westwoodana (Zetterstedt, 1839) (Conchylis)

51a0632.2 A. exaridanus (Kuznetzov, 1991) (Olethreutes) N. COMB H [NEW]
NOTE: Added to the NA fauna by Jalava & Miller (1998). We place it here in *Argyroploce* based on Kuznetsov & Mikkola (1991), who indicated that this species is very closely related to *A. lediana*; and Nedoshivina (2016), who indicated that it likely belonged in *Argyroploce*. We hereby formally make this new combination.

51a0632.3 A. mengelana (Fernald, 1894) (Sericoris) H 2855
NOTE: This species of northern Canada and GR has recently been discovered in northern Siberia (Aarvik 2017), indicating it is Holarctic. We place it in *Argyroploce* following Aarvik (2017).
groenlandicana (Bang-Haas, 1896) (Penthina)

Genus HEDYA Hübner, [1825]
EPISAGMA Hübner, [1825]
PENDINA Treitschke, 1829
PENTHINA Treitschke, 1830

51a0633 H. atropunctana (Zetterstedt, 1839) (Penthina) H [NEW]
NOTE: Recognized as Holarctic and added to the NA fauna by Jalava & Miller (1998); confirmed with DNA barcode data by Gilligan et al. (2020a). This species was transferred from *Metendothenia* Diakonoff, 1973 to *Hedya* by Alipanah & Baixeras (2011).
dimidiana (Sodoffsky, 1830) (Tortrix)
ochromelana (Guenée, 1845) (Penthina)

51a0634 H. separatana (Kearfott, 1907) (Olethreutes) 2860
dimidiana of authors; (not Clerck, 1759) (Phalaena) misappl.

a0635 H. ochroleucana of authors; (not Frölich, 1828) (Tortrix) MISAPPL. 2861
NOTE: Genetic diversity within NA populations indicates that "true" *H. ochroleucana* is restricted to the Old World (Gilligan et al. 2020a), and that NA populations represent two unrecognized species. One or more Nearctic synonyms of *H. ochroleucana* may apply to these taxa; however, we continue to use this name for NA populations pending further taxonomic work.
consanguinana (Walsingham, 1879) (Penthina)
contrariana (Walker, 1863) (Penthina)
nimbatana (Clemens, 1860) (Antithesia)

51a0636 H. nubiferana (Haworth, 1811) (Tortrix) I 2862
NOTE: Introduced from Europe, first found in NS in 1913, and in BC in 1914 (Gillespie & Gillespie 1982); confirmed with DNA barcode data by Gilligan et al. (2020a).
dimidioalba (Retzius, 1783) (Phalaena)
variegana (Hübner, 1799) (Tortrix)

51a0637 H. chionosema (Zeller, 1876) (Penthina) 2863
51a0638 H. cyanana (Murtfeldt, 1880) (Penthina) 2864
51a0639 H. salicella (Linnaeus, 1758) (Phalaena) I [NEW]
NOTE: Sabourin et al. (2002a) reported the first records of this European species from NA.

Genus EVORA Heinrich, 1926

51a0640 E. hemidesma (Zeller, 1876) (Euchromia) 2866

Genus TSINILLA Heinrich, 1931
NOTE: This genus was erroneously placed in Eucosmini by Pohl et al. (2016).

51a0640.5 T. lineana (Fernald, 1901) (Eucosma) 2865

Tribe ENARMONIINI Diakonoff, 1953

Genus ANCYLIS Hübner, [1825]
ID INFO (partial): Heinrich (1923); also McDunnough (1955), Gilligan et al. (2016).
ANCHYLOPERA Stephens, 1829
ANCYLOIDES Diakonoff, 1982
ANCYLOPERA Agassiz, 1848
ANTICLEA Stephens, 1834
EPICHARIS Hübner, 1825
LAMYRODES Meyrick, 1910
PALAEOBIA Meyrick, 1881
PHILALCEA Stephens, 1835
PHOXOPTERIA Walcott, 1923
PHOXOPTERIS Treitschke, 1830
PHOXOPTERYX Sodoffsky, 1837
SIDERIA Guenée, 1845

Ancylis geminana group Gilligan et al., 2016
ID INFO: Gilligan et al. (2016).

51a0640.6 A. diminuatana Kearfott, 1905 (Ancylis) [NEW]
biarcuana of authors; (not Stephens, 1834) (Anchylopera) misappl.
diminutana of authors; (not Haworth, 1811) (Tortrix) misappl. [3379]
geminana of authors; (not Donovan, [1806]) (Phalaena) misappl.

51a0640.65 A. saliana Gilligan & Huemer, 2016 (Ancylis) [NEW]

Ancylis unguicella group Gilligan et al., 2016
ID INFO: Gilligan et al. (2016).

51a0640.7 A. unguicella (Linnaeus, 1758) (Phalaena) H 3382
cuencana Caradja, 1916 (Ancylis)
falcana (Hübner, [1796-1799]) (Tortrix)
plagosana (Clemens, 1864) (Anchylopera)
vappana (Hübner, [1814-1817]) (Tortrix)

51a0640.75 A. pacificana (Walsingham, 1879) (Phoxopteryx) 3383
51a0640.8 A. uncella ([Denis & Schiffermüller], 1775) (Tinea) H [NEW]
carbonana Heinrich, 1923 (Ancylis) [3378]
subuncana Krulikovsky, 1907 (Ancylis)

51a0640.85 A. goodelliana (Fernald, 1882) (Phoxopteris) 3380
51a0640.9 A. oregonensis Gilligan & Huemer, 2016 (Ancylis) [NEW]

[Ancylis ungrouped]

51a0641 A. nubeculana (Clemens, 1860) (Anchylopera) 3354
51a0642 A. subaequana (Zeller, 1876) (Phoxopteryx) 3355
ssp. a. subaequana (Zeller, 1876) (Phoxopteryx)
ssp. b. fergusoni (McDunnough, 1958) (Anchylopera)
ssp. c. kincaidiana (Fernald, 1900) (Phoxopteryx)
51a0644 A. galeamatana (McDunnough, 1956) (Anchylopera) 3356
51a0645 A. sheppardana (McDunnough, 1956) (Anchylopera) 3357
a0645.1E A. myrtillana (Treitschke, 1830) (Phoxopteryx) EXCL. [NEW]
NOTE: This species was listed by Poole & Gentili (1996), but no verified records are known. It was omitted from Pohl et al. (2016).
51a0646 A. discigerana (Walker, 1863) (Grapholita) 3358
spiraeifoliana of authors; (not Clemens, 1860) (Anchylopera) misid.
NOTE: This misidentification by Heinrich (1923) has persisted in collections and subsequent literature for many years.
51a0647 A. metamelana (Walker, 1863) (Grapholita) 3359
angulifasciana (Zeller, 1876) (Phoxopteris)
discoferana (Walker, 1863) (Grapholita)
intermediana Kearfott, 1907 (Ancylis)
51a0648 A. tenebrica (Heinrich, 1929) (Anchylopera) 3360
51a0649 A. semiovana (Zeller, 1876) (Phoxopteris) 3361
51a0650 A. columbiana (McDunnough, 1955) (Anchylopera) 3362
ssp. a. columbiana (McDunnough, 1955) (Anchylopera)
ssp. b. shastensis (McDunnough, 1955) (Anchylopera)
51a0651 A. simuloides (McDunnough, 1955) (Anchylopera) 3363
discigerana of authors; (not Walker, 1863) (Grapholita) misid.
NOTE: McDunnough (1955) pointed out that Heinrich's (1923) treatment of "*discigerana*" was an error and referred to his new subspecies *A. simuloides sierrae* (the latter now regarded as a synonym rather than subspecies).
litoris (McDunnough, 1955) (Anchylopera)
sierrae (McDunnough, 1955) (Anchylopera)
51a0652 A. maritima Dyar, 1904 (Ancylis) 3364
a0653 A. spiraeifoliana (Clemens, 1860) (Anchylopera) 3365
spiraeifoliana (Walsingham, 1879) (Phoxopteryx)
spireaefoliana; (Clemens, 1860) (Anchylopera) missp.
51a0654 A. laciniana (Zeller, 1876) (Anchylopera) 3366
51a0655 A. burgessiana (Zeller, 1876) (Phoxopteris) 3367
murtfeldtiana (Riley, 1881) (Phoxopteris)
pruni (Heinrich, 1923) (Anchylopera)
51a0656 A. fuscociliana (Clemens, 1864) (Anchylopera) 3369
dubiana (Clemens, 1864) (Anchylopera)
51a0657 A. mira Heinrich, 1929 (Ancylis) 3368
furvescens (Heinrich, 1929) (Anchylopera)
51a0658 A. platanana (Clemens, 1860) (Anchylopera) 3370
marcidana (Zeller, 1876) (Phoxopteris)
51a0659 A. rhodorana (McDunnough, 1954) (Anchylopera) [NEW]
rhoderana; Powell, 1983 (Ancylis) missp. [3371]
51a0660 A. brauni (Heinrich, 1931) (Anchylopera) 3372
51a0661 A. definitivana (Heinrich, 1923) (Anchylopera) 3373

51a0662.1 A. comptana of authors; (not Frölich, 1828) (Tortrix) MISAPPL. 3374
NOTE: This name is used as a placeholder name only. DNA barcode data in BOLD clearly distinguish the NA specimens identified as this species as a separate taxon from those in Europe; "true" *A. comptana* does not occur in NA (Gilligan et al. 2020a). Further study is needed to determine if there is more than one species represented by the many NA synonyms for this taxon.
amblygona (Zeller, 1876) (Phoxopteris)
cometana (Walsingham, 1879) (Phoxopteryx)
conflexana (Walker, 1863) (Grapholita)
floridana (Zeller, 1876) (Phoxopteris)
fragariae (Walsh & Riley, 1869) (Anchylopera)
lamiana (Clemens, 1864) (Anchylopera)
pulchellana (Clemens, 1864) (Anchylopera)

51a0663 A. divisana (Walker, 1863) (Grapholita) 3375
51a0664 A. apicana (Walker, 1866) (Grapholita) 3376
51a0665 A. muricana (Walsingham, 1879) (Phoxopteryx) 3377
ssp. a. muricana (Walsingham, 1879) (Phoxopteryx)
ssp. b. cornifoliana (Riley, 1881) (Phoxopteris)
NOTE: Subspecies *cornifoliana* was incorrectly listed as a valid species by Pohl et al. (2016).
51a0670 A. albafascia Heinrich, 1929 (Ancylis) 3381
51a0673 A. mediofasciana (Clemens, 1864) (Anchylopera) 3384
51a0674 A. torontana (Kearfott, 1907) (Proteoteras) 3385
51a0675 A. tineana (Hübner, [1799]) (Tortrix) 3386
ssp. a. tineana (Hübner, [1799]) (Tortrix)
leucophaleratana (Packard, 1867) (Pandemis)
ocellana (Clemens, 1864) (Anchylopera)
ssp. b. forsterana Bachmaier, 1965 (Ancylis) (excl.)
NOTE: This extralimital subspecies was reported from NA in error, by Pohl et al. (2016), as a full species.
51a0677 A. albacostana Kearfott, 1905 (Ancylis) 3387
51a0678 A. cordiae Busck, 1933 (Ancylis) 3388
51a0678.1 A. viridiidorsana (Möschler, 1891) (Phoxopteryx) [NEW]
NOTE: This species, described from Puerto Rico, has been established in the FL Keys for decades but has not been formally listed previously. A TX specimen has also been identified recently via DNA barcoding (contributed by JEH and SRN).
viridiidersana (Walcott, 1923) (Phoxopteria)

Genus HYSTRICHOPHORA Walsingham, 1879
HYSTRICOPHORA; Fernald, in: Dyar, 1903 missp.

51a0679 H. leonana Walsingham, 1879 (Hystrichophora) 3389
aurantiana Walsingham, 1879 (Hystrichophora)
51a0680 H. paradisiae Heinrich, 1923 (Hystrichophora) 3390
51a0681 H. stygiana (Dyar, 1903) (Thiodia) 3391
ssp. a. stygiana (Dyar, 1903) (Thiodia)
ssp. b. californiae Heinrich, 1923 (Hystrichophora)
51a0682 H. asphodelana (Kearfott, 1907) (Thiodia) 3394
ssp. a. asphodelana (Kearfott, 1907) (Thiodia)
ssp. b. seraphicana Heinrich, 1923 (Hystrichophora)
51a0683 H. roessleri (Zeller, 1876) (Grapholitha) 3392
51a0684 H. ostentatrix Heinrich, 1923 (Hystrichophora) 3393
51a0685 H. taleana (Grote, 1878) (Grapholitha) 3395
51a0686 H. ochreicostana (Walsingham, 1884) (Semasia) 3396
51a0687 H. loricana (Grote, 1880) (Phoxopteris) 3397
51a0688 H. decorosa Heinrich, 1929 (Hystrichophora) 3398
51a0689 H. vestaliana (Zeller, 1876) (Grapholitha) 3399

Genus EUCOSMOMORPHA Obraztsov, 1951
ID INFO: Miller (2001).

51a0691 E. nearctica Miller, 2001 (Eucosmomorpha) [NEW]
albersana of authors; (not Hübner, [1813]) (Tortrix) misappl.

Genus ENARMONIA Hübner, [1825]
ID INFO: Dang & Parker (1990).
ENARMONIA Diakonoff, 1952
ENARMONOPSIS Kuznetzov, 1969

51a0692 E. formosana (Scopoli, 1763) (Phalaena) I [NEW]
NOTE: Introduced from the Palaearctic (Dang & Parker 1990); confirmed with DNA barcode data by Gilligan et al. (2020a).
ornatana (Hübner, [1796-1799]) (Tortrix)
scriptana (Thunberg & Borgström, 1784) (Tortrix)
woeberiana ([Denis & Schiffermüller], 1775) (Tortrix)

Tribe EUCOSMINI Meyrick, 1909

Genus RHYACIONIA Hübner, [1825]
ID INFO: Powell & Miller (1978); also Miller (1985b).

Rhyacionia buoliana group Powell & Miller, 1978

51a0694 R. buoliana ([Denis & Schiffermüller], 1775) (Tortrix) I 2867
NOTE: Introduced from Europe, first found in NY in 1913 (Gillespie & Gillespie 1982); confirmed with DNA barcode data by Gilligan et al. (2020a).
gemmana (Hübner, [1818-1819]) (Tortrix)
gemmatella (Panzer, 1804) (Phalaena)
herbstella (Goeze, 1783) (Phalaena)
milleri Agenjo, 1963 (Rhyacionia)
pallasana (Sodoffsky, 1830) (Tortrix)
plumbaea (Geoffroy, in: Fourcroy, 1785) (Phalaena)
relictana (Le Cerf, 1932) (Evetria)
riesgoi Agenjo, 1963 (Rhyacionia)
robredoi Agenjo, 1963 (Rhyacionia)
thurificana (Lederer, 1855) (Retinia)

Rhyacionia rigidana group Powell & Miller, 1978

51a0695 R. rigidana (Fernald, 1880) (Retinia) 2868
51a0696 R. subtropica Miller, 1961 (Rhyacionia) 2869

Rhyacionia multilineata group Powell & Miller, 1978

51a0697 R. multilineata Powell, 1978 (Rhyacionia) 2870

Rhyacionia pasadenana group Powell & Miller, 1978

51a0698 R. pasadenana (Kearfott, 1907) (Evetria) 2871
51a0699 R. zozana (Kearfott, 1907) (Evetria) 2872
matutina (Meyrick, 1912) (Evetria)
montana (Busck, 1912) (Evetria)
51a0700 R. neomexicana (Dyar, 1903) (Evetria) 2873
51a0701 R. salmonicolor Powell, 1978 (Rhyacionia) 2874
51a0702 R. monophylliana (Kearfott, 1907) (Petrova) 2875
51a0703 R. martinana Powell, 1978 (Rhyacionia) 2876

Rhyacionia adana group Powell & Miller, 1978

51a0704 R. adana Heinrich, 1923 (Rhyacionia) 2877
51a0705 R. jenningsi Powell, 1978 (Rhyacionia) 2878

Rhyacionia busckana group Powell & Miller, 1978

51a0706 R. busckana Heinrich, 1923 (Rhyacionia) 2879
51a0707 R. granti Miller, 1985 (Rhyacionia) [NEW]
51a0708 R. blanchardi Miller, 1978 (Rhyacionia) 2880

Rhyacionia fumosana group Powell & Miller, 1978

51a0709 R. fumosana Powell, 1978 (Rhyacionia) 2881

Rhyacionia frustrana group Powell & Miller, 1978

51a0710 R. frustrana (Comstock, 1880) (Retinia) 2882
51a0711 R. bushnelli (Busck, 1914) (Evetria) 2883
51a0712 R. sonia Miller, 1967 (Rhyacionia) 2884
51a0713 R. aktita Miller, 1978 (Rhyacionia) 2885

Rhyacionia subcervinana group Powell & Miller, 1978

51a0714 R. subcervinana (Walsingham, 1879) (Retinia) 2886
51a0715 R. pallifasciata Powell, 1978 (Rhyacionia) 2887

Rhyacionia versicolor group Powell & Miller, 1978

51a0716 R. versicolor Powell, 1978 (Rhyacionia) 2888

[Rhyacionia ungrouped]

51a0717E R. duplana (Hübner, 1811) (Tortrix) EXCL. [NEW]
NOTE: This species was reported from Europe and OR by Fernald (1882), and from Canada by The Natural History Society of Toronto (1883). No confirmed NA records are known; an old specimen by Walsingham from OR was corrected to *R. busckana* by Powell & Miller (1978).

Genus JERAPOWELLIA Miller, 1995
ID INFO: Miller (1995).

51a0718 J. burnsorum Miller, 1995 (Jerapowellia) [NEW]

Genus RETINIA Guenée, 1845
ID INFO (partial): Heinrich (1923), Miller (1978a).
PETROVA Heinrich, 1923

51a0719 R. comstockiana Fernald, 1879 (Retinia) 2889
51a0720 R. taedana (Miller, 1978) (Petrova) 2890
51a0721 R. virginiana (Busck, 1914) (Evetria) [NEW]
wenzeli (Kearfott, 1910) (Rhyacionia) *[2891]*
51a0722 R. albicapitana (Busck, 1914) (Evetria) 2892
51a0723 R. arizonensis (Heinrich, 1920) (Evetria) 2893
51a0724 R. metallica (Busck, 1914) (Evetria) 2894
luculentana (Heinrich, 1920) (Evetria) *[2895]*
51a0725 R. sabiniana (Kearfott, 1907) (Evetria) 2896
51a0726 R. edemoidana (Dyar, 1903) (Eucosma) 2897
51a0727 R. gemistrigulana (Kearfott, 1905) (Evetria) 2898
51a0728 R. mafica (Miller, 1978) (Petrova) [NEW]
51a0729 R. pallipennis (McDunnough, 1938) (Petrova) 2899
51a0730 R. burkeana (Kearfott, 1907) (Evetria) 2900
51a0731 R. picicolana (Dyar, 1906) (Eucosma) 2901
51a0732 R. houseri (Miller, 1959) (Petrova) 2902

Genus BARBARA Heinrich, 1923

51a0733 B. colfaxiana (Kearfott, 1907) (Evetria) 2903
coloradensis (Heinrich, 1920) (Evetria)
taxifoliella (Busck, 1914) (Evetria)
51a0733.1 B. ulteriorana (Heinrich, 1920) (Evetria) 2904
NOTE: Listing of this species as a synonym of *B. mappana* by Brown (2005) was an error. It is a valid species.
51a0734 B. mappana Freeman, 1941 (Barbara) 2905

Genus SPILONOTA Stephens, 1829
BATHROTOMA Meyrick, 1881
TMETOCERA Lederer, 1859

51a0735 S. ocellana ([Denis & Schiffermüller], 1775) (Tortrix)
I 2906
NOTE: Introduced from Eurasia, first found in MA in 1841 (Gillespie & Gillespie 1982); confirmed with DNA barcode data by Gilligan et al. (2020a). Historical records of *S. laricana* in NA (often misspelled as "*lariciana*") likely refer to *S. ocellana* (Pohl & Dombroskie, in: Pohl et al. 2018), but "true" *S. laricana* has recently been found in NA (see note under that species).
comitana (Hübner, [1796-1799]) (Tortrix)
laricana of authors; (not Heinemann, 1863) (Grapholitha) misappl.
lariciana; [various, no date] (Spilonota) missp.
luscana (Fabricius, 1794) (Pyralis)
oculana (Harris, 1862) (Penthina)
pyrifoliana (Clemens, 1860) (Hedya)
zellerana (Borgmann, 1895) (Tmetocera)
51a0736 S. laricana (Heinemann, 1863) (Grapholitha) I [NEW]
NOTE: Introduced from Europe; first reported from NA in QC and ON by Handfield (2002); Gilligan et al. (2020a) confirmed that populations in Canada and northeastern USA are the same species as those in Europe. However, historical records of *S. laricana* in NA likely refer to *S. ocellana* (see note under the latter species).

Genus STREPSICRATES Meyrick, 1888
MONILIA Walker, 1866
PHTHENOLOPHUS Busck, 1910
PHTHINOLOPHUS Dyar, 1903
STERPSICEROS Razowski, 1977
STREPSICEROS Meyrick, 1881

51a0737 S. smithiana Walsingham, 1891 (Strepsicrates) 2907
imminens (Meyrick, 1917) (Spilonota)
indentanus (Dyar, 1903) (Phthinolophus)

Genus EUCOPINA Gilligan & Wright, 2012

51a0737.3 E. sonomana (Kearfott, 1907) (Eucosma) 3065
51a0737.35 E. gloriola (Heinrich, 1931) (Eucosma) 3066
51a0737.4 E. bobana (Kearfott, 1907) (Eucosma) 3067
antichroma (Meyrick, 1912) (Eucosma)
51a0737.45 E. ponderosa (Powell, 1968) (Eucosma) 3068
51a0737.5 E. monoensis (Powell, 1968) (Eucosma) 3069
51a0737.55 E. franclemonti (Powell, 1968) (Eucosma) 3070
51a0737.6 E. rescissoriana (Heinrich, 1920) (Eucosma) [NEW]
recissoriana; (Powell, 1983) (Eucosma) missp. *[3071]*
51a0737.65 E. cocana (Kearfott, 1907) (Eucosma) 3072
rhodophaea (Meyrick, 1912) (Eucosma)
51a0737.7 E. monitorana (Heinrich, 1920) (Eucosma) 3073
51a0737.75 E. tocullionana (Heinrich, 1920) (Eucosma) 3074
51a0737.8 E. siskiyouana (Kearfott, 1907) (Evetria) 3075
51a0737.85 E. crymalana (Powell, 1968) (Eucosma) 3076

Genus EUCOSMA Hübner, 1823
ID INFO: Wright & Gilligan (2015); also Metzler & Porter (2018), Wright & Gilligan (2019, 2021).
AFFA Walker, 1863
ASCELODES Fletcher, 1929
CALOSETIA Stainton, 1859
CATOPTRIA Guenée, 1845
EXENTERA Grote, 1877
EXENTERELLA Grote, 1883
IOPLOCAMA Clemens, 1860
PALPOCRINIA Kennel, 1919

Eucosma circulana group Wright & Gilligan, 2015

51a0738 E. circulana (Hübner, 1823) (Tortrix) 3052
51a0739 E. gemellana Heinrich, 1923 (Eucosma) [NEW]
51a0740 E. paragemellana Gilligan & Wright, 2013 (Eucosma) [NEW]
51a0741 E. glomerana (Walsingham, 1879) (Paedisca) 3051
griphodes Meyrick, 1912 (Eucosma)
sandana Kearfott, 1907 (Eucosma)
51a0742 E. bilineana Kearfott, 1907 (Eucosma) 3100
51a0743 E. floridana Kearfott, 1907 (Eucosma) 3144
51a0744 E. monogrammana (Zeller, 1876) (Paedisca) 3046
51a0745 E. giganteana (Riley, 1881) (Paedisca) 3098
minorata Heinrich, 1924 (Eucosma)
51a0746 E. bipunctella (Walker, 1863) (Affa) 3099
worthingtoniana (Fernald, 1878) (Paedisca)
51a0747 E. landana Kearfott, 1907 (Eucosma) 3114
isospora Meyrick, 1912 (Eucosma)
51a0748 E. simplex McDunnough, 1925 (Eucosma) 3115
51a0749 E. rusticana Kearfott, 1905 (Eucosma) 3125
51a0750 E. haydenae Wright, 2006 (Eucosma) [NEW]
51a0751 E. paregoria Brown, 2014 (Eucosma) [NEW]
paregorica; Brown, 2014 (Eucosma) missp.
51a0752 E. sombreana Kearfott, 1905 (Eucosma) 3127
phaeodes Meyrick, 1920 (Eucosma)
phlaeodes; Heinrich, 1923 (Eucosma) missp.

Eucosma refusana group Wright & Gilligan, 2015

51a0753 E. decempunctana (Walsingham, 1879) (Semasia) 2923
51a0754 E. amphorana (Walsingham, 1879) (Semasia) 2922
51a0755 E. refusana (Walker, 1863) (Grapholita) 2924
51a0756 E. verna (Miller, 1971) (Phaneta) 2926
refusana of authors; (not Walker, 1863) (Grapholita) misid.
NOTE: This misidentification by Heinrich (1923) has caused considerable historical confusion.
51a0757 E. autumnana (McDunnough, 1942) (Thiodia) 2925
51a0758 E. citricolorana (McDunnough, 1942) (Thiodia) 2921
51a0759 E. annetteana (Kearfott, 1907) (Thiodia) 2919
scotiana (McDunnough, 1958) (Thiodia) *[2920]*
51a0760 E. millerana Wright & Brown, 2014 (Eucosma) [NEW]
51a0761 E. litorea Wright & Brown, 2014 (Eucosma) [NEW]

Eucosma radiatana group Wright & Gilligan, 2015

51a0762 E. radiatana (Walsingham, 1879) (Semasia) 2908
51a0763 E. formosana (Clemens, 1860) (Ioplocama) 2916
sagittana (Walker, 1863) (Grapholitha)
stercoreana (Zeller, 1876) (Grapholitha)
51a0764 E. umbrastriana (Kearfott, 1907) (Thiodia) 2913
roseoterminana (Kearfott, 1907) (Thiodia) *[2914]*
subcandida (Heinrich, 1929) (Thiodia)
51a0765 E. albertana (McDunnough, 1925) (Thiodia) 2909
51a0766 E. essexana (Kearfott, 1907) (Thiodia) 2910
51a0767 E. awemeana (Kearfott, 1907) (Thiodia) 2911
51a0768 E. ferruginana (Fernald, 1882) (Semasia) 2915
51a0769 E. indeterminana (McDunnough, 1925) (Thiodia) 2912
51a0770 E. altana (McDunnough, 1927) (Thiodia) 2917

Eucosma artemisiana group Wright & Gilligan, 2015

51a0771 E. artemisiana (Walsingham, 1879) (Semasia) 2984
51a0772 E. infimbriana (Dyar, 1904) (Thiodia) 2985
candidula (Heinrich, 1924) (Thiodia)

51a0773 E. segregata (Heinrich, 1924) (Thiodia) 2991
castrensis (McDunnough, 1929) (Thiodia) *[2992]*
51a0775 E. setonana (McDunnough, 1927) (Thiodia) 2988
51a0776 E. octopunctana (Walsingham, 1895) (Semasia) 2986
51a0777 E. festivana (Heinrich, 1923) (Thiodia) 2990
51a0778 E. youngi (McDunnough, 1925) (Thiodia) 2987
51a0779 E. scalana (Walsingham, 1879) (Semasia) 2989
51a0780 E. insignata (Heinrich, 1924) (Thiodia) 2945
51a0781 E. camdenana (McDunnough, 1925) (Thiodia) 2993
51a0782 E. calderana Wright & Gilligan, 2015 (Eucosma) [NEW]
51a0783 E. fulvofasciata Wright & Gilligan, 2015 (Eucosma) [NEW]
51a0784 E. robertsoni Wright & Gilligan, 2015 (Eucosma) [NEW]

Eucosma perangustana group Wright & Gilligan, 2015

51a0785 E. perangustana (Walsingham, 1879) (Semasia) 2981
51a0786 E. kiscana (Kearfott, 1907) (Thiodia) 2982
speculigera (Meyrick, 1912) (Thiodia)

Eucosma lapidana group Wright & Gilligan, 2015

51a0787 E. lapidana (Walsingham, 1879) (Semasia) 2949
lepidana; (Heinrich, 1929) (Semasia) missp.
51a0788 E. canusana (Wright, 1997) (Phaneta) [NEW]
51a0789 E. kokana Kearfott, 1907 (Eucosma) 2950
chortaea Meyrick, 1912 (Eucosma)
sororiana (Heinrich, 1923) (Thiodia)
51a0790 E. ambodaidaleia (Miller, 1983) (Phaneta) [NEW]

Eucosma griseocapitana group Wright & Gilligan, 2015

51a0791 E. griseocapitana (Walsingham, 1879) (Semasia) 2996
51a0792 E. linitipunctana (Blanchard & Knudson, 1983) (Phaneta) [NEW]
51a0793 E. alabamae Wright & Gilligan, 2015 (Eucosma) [NEW]
51a0794 E. granulatana (Kearfott, 1908) (Cydia) 3001
51a0795 E. argutipunctana (Blanchard & Knudson, 1983) (Phaneta) [NEW]

Eucosma striatana group Wright & Gilligan, 2015

51a0796 E. striatana (Clemens, 1860) (Anchylopera) 2973
albicepsana (Walker, 1863) (Paedisca)
trivittana (Zeller, 1876) (Grapholitha)
51a0797 E. occidentalis (Heinrich, 1923) (Thiodia) [NEW]
51a0798 E. implicata (Heinrich, 1931) (Thiodia) 2974
51a0799 E. pallidicostana (Walsingham, 1879) (Semasia) 2980

Eucosma clavana group Wright & Gilligan, 2015

51a0800 E. clavana (Fernald, 1882) (Semasia) 2968
51a0801 E. indagatricana (Heinrich, 1923) (Thiodia) 2969
verecundana (Blanchard, 1979) (Phaneta)
51a0802 E. misturana (Heinrich, 1923) (Thiodia) 2963
51a0803 E. dorsiatomana (Kearfott, 1905) (Thiodia) 2972
51a0804 E. salidana Wright & Gilligan, 2015 (Eucosma) [NEW]
51a0805 E. fertoriana (Heinrich, 1923) (Thiodia) 2965
51a0806 E. crassana (McDunnough, 1938) (Thiodia) 2966
51a0807 E. labiata (Wright, 2010) (Phaneta) [NEW]

Eucosma spiculana group Wright & Gilligan, 2015

51a0808 E. spiculana (Zeller, 1876) (Grapholitha) 2971
argenticostana (Walsingham, 1879) (Semasia) *[2970]*
51a0809 E. fulvotegulana Wright & Gilligan, 2015 (Eucosma) [NEW]
51a0810 E. pecosana Wright & Gilligan, 2015 (Eucosma) [NEW]
51a0811 E. goblinana (Wright, 2010) (Phaneta) [NEW]

Eucosma corculana group Wright & Gilligan, 2015

51a0812 E. corculana (Zeller, 1874) (Semasia) 2918
51a0813 E. arenana (Wright, 2010) (Phaneta) [NEW]
51a0814 E. mormonensis (Heinrich, 1923) (Thiodia) 2941
51a0815 E. browni (Wright, 2010) (Phaneta) [NEW]

Eucosma tarandana group Wright & Gilligan, 2015

51a0816 E. tarandana (Möschler, 1874) (Grapholitha) 2956
taradana; (Heinrich, 1923) (Grapholitha) missp.
triangulana (Kearfott, 1905) (Thiodia)
51a0817 E. transversa (Walsingham, 1895) (Semasia) 2955
51a0818 E. montanana (Walsingham, 1884) (Semasia) 2994
clarkei (Blanchard & Knudson, 1983) (Phaneta)
51a0819 E. benjamini (Heinrich, 1923) (Thiodia) 2995

Eucosma elongana group Wright & Gilligan, 2015

51a0820 E. elongana (Walsingham, 1879) (Semasia) 2952
51a0821 E. rupestrana (McDunnough, 1925) (Thiodia) 2953
vernalana (McDunnough, 1942) (Thiodia) *[2954]*
51a0822 E. umbraticana (Heinrich, 1923) (Thiodia) 3004
51a0823 E. offectalis (Hulst, 1886) (Crambus) 3005
obliterana (Walsingham, 1895) (Semasia)

Eucosma pastigiata group Wright & Gilligan, 2015

51a0824 E. pastigiata (Heinrich, 1929) (Thiodia) 2997
51a0825 E. hodgesi (Wright & Gilligan, 2010) (Phaneta) [NEW]

Eucosma stramineana group Wright & Gilligan, 2015

51a0826 E. stramineana (Walsingham, 1879) (Semasia) 3003
51a0827 E. parvana (Walsingham, 1879) (Semasia) 2964
51a0828 E. clementeana (Wright, 2010) (Phaneta) [NEW]
stramineana of authors; (not Walsingham, 1879) (Semasia) misid.
NOTE: Misidentification by Powel & Opler (2009); the illustration therein is actually a specimen of *E. clementeana*.
51a0829 E. grindeliana (Busck, 1906) (Cydia) 3002
stramineana of authors; (not Walsingham, 1879) (Semasia) misid.
NOTE: Misidentification by Heinrich (1923).

Eucosma convergana group Wright & Gilligan, 2015

51a0830 E. convergana (McDunnough, 1925) (Thiodia) 2940
51a0831 E. modernana (McDunnough, 1925) (Thiodia) 2938

Eucosma parmatana group Wright & Gilligan, 2015

51a0832 E. parmatana (Clemens, 1860) (Ephippiphora) 2937
alterana (Heinrich, 1923) (Thiodia) *[2932]*
alternana; (Brodie, 1929) (Thiodia) missp.
crispana (Clemens, 1865) (Steganoptycha) *[2931]*
kennebecana (Kearfott, 1907) (Epinotia) *[3187]*
marmontana (Kearfott, 1907) (Proteopteryx) *[2933]*
perfuscana (Heinrich, 1923) (Thiodia) *[2930]*
sinestrigana (McDunnough, 1938) (Thiodia) *[2934]*
51a0834 E. oregonensis (Heinrich, 1923) (Thiodia) 2935
51a0835 E. ochroterminana (Kearfott, 1907) (Thiodia) 2929
51a0836 E. tomonana Kearfott, 1907 (Eucosma) 2936
limigena Meyrick, 1912 (Eucosma)
51a0837 E. raracana (Kearfott, 1907) (Thiodia) 2928
fastidiosa (Meyrick, 1912) (Thiodia)

Eucosma ochrocephala group Wright & Gilligan, 2015

51a0838 E. ochrocephala (Walsingham, 1895) (Semasia) 2927
imbridana (Fernald, 1905) (Cydia) *[3000]*
51a0839 E. sableana Wright & Gilligan, 2015 (Eucosma) [NEW]
51a0840 E. verniochreana (Heinrich, 1923) (Thiodia) 2999
51a0841 E. knudsoni Wright & Gilligan, 2015 (Eucosma) [NEW]

[Eucosma ungrouped]

51a0842 E. olivaceana (Riley, 1881) (Grapholitha) 2998
51a0843 E. viridis (Wright & Gilligan, 2010) (Phaneta) [NEW]
51a0844 E. modicellana (Heinrich, 1923) (Thiodia) 2977
51a0845 E. pallidarcis (Heinrich, 1923) (Thiodia) 2976
51a0846 E. cibolana (Wright, 2010) (Phaneta) [NEW]
51a0847 E. parvula (Wright, 2010) (Phaneta) [NEW]
51a0848 E. patagoniana Wright, 2014 (Eucosma) [NEW]
51a0849 E. influana (Heinrich, 1923) (Thiodia) 2947
musetta (Blanchard & Knudson, 1983) (Phaneta)
51a0850 E. migratana (Heinrich, 1923) (Thiodia) 2961
51a0850.1 E. gypsumana Metzler & Porter, 2018 (Eucosma) [NEW]
51a0851 E. complicana (McDunnough, 1925) (Thiodia) 2958
51a0852 E. columbiana (Walsingham, 1879) (Semasia) 2944
51a0853 E. bucephaloides (Walsingham, 1891) (Semasia) 3006
51a0854 E. salmicolorana (Heinrich, 1923) (Thiodia) 2983
51a0855 E. mayelisana (Blanchard, 1979) (Phaneta) [NEW]

51a0856 E. tenuiana (Walsingham, 1879) (Semasia) 2960
51a0857 E. donahuei (Wright, 2013) (Phaneta) [NEW]
51a0858 E. nepotinana (Heinrich, 1923) (Thiodia) 2957
51a0859 E. kramerana (Wright, 2013) (Phaneta) [NEW]
51a0860 E. subminimana (Heinrich, 1923) (Thiodia) 2979
51a0861 E. alatana (McDunnough, 1938) (Thiodia) 2967
51a0862 E. vogelana (Wright, 2010) (Phaneta) [NEW]
51a0863 E. latens (Heinrich, 1929) (Thiodia) 2943
51a0864 E. baloghi (Wright, 2010) (Phaneta) [NEW]
51a0865 E. metzleri Wright, 2014 (Eucosma) [NEW]
51a0866 E. fasciculatana (McDunnough, 1938) (Thiodia) 2939
51a0867 E. spectana (McDunnough, 1938) (Thiodia) 2959
51a0868 E. southamptonensis (Heinrich, 1935) (Thiodia) 3007
urnigera Meyrick, 1937 (Eucosma) *[3148]*
51a0869 E. minimana (Walsingham, 1879) (Semasia) 2978
51a0870 E. cruentana (Blanchard & Knudson, 1981) (Phaneta) [NEW]
51a0871 E. apacheana (Walsingham, 1884) (Semasia) 2946
51a0872 E. ornatula (Heinrich, 1924) (Thiodia) 2951
51a0872.1E E. aspidiscana (Hübner, [1817]) (Tortrix) EXCL. [NEW]
NOTE: This species was reported in error from NS by Perrin & Russel (1912).
51a0872.2 E. cana (Haworth, 1811) (Tortrix) H/I [NEW]
NOTE: BOLD records of this species from Canada date back to 2009; these were confirmed to be the same species as the European *E. cana* by Gilligan et al. (2020a). It is not known if this species is Holarctic or introduced.
carduana (Guenée, 1845) (Catoptria)
marmorana (Fabricius, 1798) (Pyralis)
monetulana (Hübner, [1817]) (Tortrix)
subvittana (Staudinger, 1892) (Grapholitha)
51a0873 E. hohenwartiana ([Denis & Schiffermüller], 1775) (Tortrix) UNVER. H? [NEW]
NOTE: This species was reported from AK by Ferris et al. (2012); Wright and Gilligan (2015) were unable to confirm this record and there are no sequence data from NA in BOLD.
cervana (Scopoli, 1763) (Phalaena)
decipiana (de la Harpe, 1858) (Semasia)
jaceana (Herrich-Schäffer, 1851) (Semasia)
pupillana (Hübner, [1796-1799]) (Tortrix)
scopoliana (Haworth, 1811) (Tortrix)
strigana (Curtis, 1831) (Carpocapsa)
51a0874 E. apriliana (Grote, 1877) (Exentera) [NEW]
aprilana; Powell, 1983 (Eucosma) missp. *[3113]*
51a0876 E. delphinoides (Heinrich, 1923) (Thiodia) 2975
51a0877 E. delphinus (Heinrich, 1923) (Thiodia) 2942
51a0880 E. gomonana Kearfott, 1907 (Eucosma) 3110
discipula Meyrick, 1912 (Eucosma)
51a0880.1 E. baggetti Wright & Gilligan, 2019 (Eucosma) [NEW]
51a0884 E. sublapidana (Walsingham, 1879) (Semasia) 2948
51a0884.1 E. aquilana Wright & Gilligan, 2021 (Eucosma) [NEW]

Genus PELOCHRISTA Lederer, 1859
ID INFO: Wright & Gilligan (2017); also Wright & Gilligan (2019).
NOTE: Four "sections" defined by Gilligan & Wright (2017) are based on differences in the female genitalia.
CALLIMOSEMA Clemens, 1865
EUCOSMOIDES Obraztsov, 1946
PSEUDEUCOSMA Obraztsov, 1946
PYGOLOPHA Lederer, 1852

Pelochrista section 1 Wright & Gilligan, 2017

Pelochrista agassizii group Wright & Gilligan, 2017

51a0885.1 P. agassizii (Robinson, 1869) (Conchylis) 3026
agassizi; (Robinson, 1869) (Conchylis) missp.
gilletteana (Dyar, 1903) (Eucosma) *[3024]*
51a0886.1 P. bolanderana (Walsingham, 1879) (Paedisca) 3029
51a0887.1 P. laticurva (Heinrich, 1929) (Eucosma) 3027

Pelochrista denverana group Wright & Gilligan, 2017

51a0888.1 P. denverana (Kearfott, 1907) (Eucosma) 3101
51a0889.1 P. hazelana (Klots, 1936) (Eucosma) 3010

Pelochrista robinsonana group Wright & Gilligan, 2017

51a0890.1 P. robinsonana (Grote, 1872) (Conchylis) 3009
quintana (Zeller, 1876) (Paedisca)
tryonana (Kearfott, 1905) (Eucosma)
51a0891.1 P. guttulana (Blanchard, 1980) (Eucosma) [NEW]
51a0892.1 P. fritillana (Blanchard & Knudson, 1981) (Eucosma) [NEW]
51a0893.1 P. mobilensis (Heinrich, 1923) (Eucosma) 3126

Pelochrista crambitana group Wright & Gilligan, 2017

51a0894.1 P. crambitana (Walsingham, 1879) (Paedisca) 3011
51a0895.1 P. richersana Wright, 2014 (Pelochrista) [NEW]
51a0896.1 P. crabtreei Wright, 2014 (Pelochrista) [NEW]

Pelochrista agricolana group Wright & Gilligan, 2017

51a0897.1 P. agricolana (Walsingham, 1879) (Paedisca) 3037
argentialbana of authors; (not Walsingham, 1879) (Paedisca) misid.
NOTE: Misidentification by Heinrich (1923).
barbara (Miller, 1974) (Eucosma) *[3039]*
britana (McDunnough, 1927) (Eucosma)
smithiana (Walsingham, 1895) (Paedisca) *[3038]*
51a0897.2 P. argentialbana (Walsingham, 1879) (Paedisca) [NEW]
agricolana of authors; (not Walsingham, 1879) (Paedisca) misid.
NOTE: Misidentification by Heinrich (1923).
flavana (Fernald, 1905) (Eucosma)
ochreana (Clemens, 1865) (Steganoptycha)
pergandeana (Fernald, 1905) (Eucosma)
51a0898.1 P. morrisoni (Walsingham, 1884) (Paedisca) 3035
51a0899.1 P. lathami (Forbes, 1937) (Eucosma) 3036
51a0900.1 P. heathiana (Kearfott, 1907) (Eucosma) 3033
51a0901.1 P. russeola (Heinrich, 1929) (Eucosma) 3056
langstoni (Powell, 1963) (Eucosma) *[3034]*

Pelochrista albiguttana group Wright & Gilligan, 2017

51a0902.1 P. albiguttana (Zeller, 1876) (Paedisca) 3043
51a0902.2 P. kimballi Wright & Gilligan, 2017 (Pelochrista) [NEW]
51a0903.1 P. graciliana (Kearfott, 1905) (Eucosma) 3044
51a0904.1 P. galenapunctana (Kearfott, 1905) (Eucosma) 3045

Pelochrista comatulana group Wright & Gilligan, 2017

51a0905.1 P. comatulana (Zeller, 1876) (Paedisca) 3041
austrina (Miller, 1985) (Eucosma)
costastrigulana (Kearfott, 1907) (Eucosma) *[3040]*
pediasios (Miller, 1985) (Eucosma)
rindgei (Miller, 1985) (Eucosma)
51a0906.1 P. vagana (McDunnough, 1925) (Eucosma) 3042
51a0907.1 P. exclusoriana (Heinrich, 1923) (Eucosma) 3093
51a0907.2 P. rufula Wright & Gilligan, 2017 (Pelochrista) [NEW]
51a0908.1 P. serapicana (Heinrich, 1923) (Eucosma) 3049
51a0909.1 P. atomosana (Walsingham, 1879) (Paedisca) 3047
51a0910.1 P. watertonana (McDunnough, 1925) (Eucosma) 3050
51a0910.2 P. polingana Wright & Gilligan, 2017 (Pelochrista) [NEW]
51a0910.3 P. comancheana Wright & Gilligan, 2017 (Pelochrista) [NEW]
51a0911.1 P. wandana (Kearfott, 1907) (Eucosma) 3122
eumaea (Meyrick, 1912) (Eucosma)
ustulatana (Blanchard & Knudson, 1983) (Eucosma)
uta (Clarke, 1953) (Eucosma) *[3048]*

Pelochrista palabundana group Wright & Gilligan, 2017

51a0912.1 P. palabundana (Heinrich, 1923) (Eucosma) 3079
51a0913.1 P. rosaocellana (Knudson, [1987]) (Eucosma) [NEW]
51a0914.1 P. salaciana (Blanchard & Knudson, 1981) (Eucosma) [NEW]

Pelochrista [section 1 ungrouped]

51a0915.1 P. daemonicana (Heinrich, 1923) (Eucosma) 3155
51a0916.1 P. collilonga Blanchard & Knudson, 1984 (Pelochrista) [NEW]
51a0917.1 P. fraudabilis (Heinrich, 1923) (Eucosma) 3053
51a0918.1 P. adamantana (Guenée, 1845) (Argyroptera) 3021
NOTE: This species has been incorrectly reported from Europe because it was described from "ex Lapponia (?)", which could refer to Lapland in Finland; however, it has been excluded from European checklists since Rebel (1901) determined that "it does not seem to be an inhabitant of this territory [the Palaearctic]". Gilligan et al. (2020a) could find no evidence of this species occurring outside of NA.

Pelochrista section 2 Wright & Gilligan, 2017

Pelochrista caniceps group Wright & Gilligan, 2017

51a0919.1 P. caniceps (Walsingham, 1884) (Paedisca) 3018
51a0920.1 P. optimana (Dyar, 1893) (Eucosma) 3025
51a0921.1 P. hyponomeutana (Walsingham, 1895) (Paedisca) 3097
51a0922.1 P. canariana (Kearfott, 1907) (Eucosma) 3013
51a0923.1 P. avalona (McDunnough, 1938) (Eucosma) 3020

Pelochrista persolita group Wright & Gilligan, 2017

51a0924.1 P. persolita (Heinrich, 1929) (Eucosma) 3090
51a0925.1 P. graziella (Blanchard, 1968) (Eucosma) 3103
51a0926.1 P. diabolana (Blanchard, 1980) (Eucosma) [NEW]

Pelochrista maculosa group Wright & Gilligan, 2017

51a0927.1 P. maculosa (Wright, 2012) (Eucosma) [NEW]
51a0928.1 P. lafontainei (Wright, 2012) (Eucosma) [NEW]

Pelochrista fuscosparsa group Wright & Gilligan, 2017

51a0929.1 P. fuscostriata Wright, 2008 (Pelochrista) [NEW]
51a0930.1 P. fuscosparsa (Walsingham, 1895) (Paedisca) 3161

Pelochrista [section 2 ungrouped]

51a0931.1 P. spaldingana (Kearfott, 1907) (Eucosma) 3022
51a0932.1 P. fandana (Kearfott, 1907) (Eucosma) 3012
argyraula (Meyrick, 1912) (Eucosma)
chloroleuca (Meyrick, 1912) (Eucosma)
gandana (Kearfott, 1907) (Eucosma) *[3019]*
51a0933.1 P. curlewensis (Wright, 2007) (Eucosma) [NEW]
51a0934.1 P. biquadrana (Walsingham, 1879) (Paedisca) 3137
palousana (Kearfott, 1907) (Eucosma) *[3163]*
subditiva (Heinrich, 1929) (Eucosma)
tahoensis (Heinrich, 1923) (Eucosma) *[3159]*
51a0935.1 P. mescalerana (Wright, 2012) (Eucosma) [NEW]
51a0935.2 P. fremonti Wright & Gilligan, 2017 (Pelochrista) [NEW]
51a0936.1 P. momana (Kearfott, 1907) (Eucosma) 3077
metaschista (Meyrick, 1912) (Eucosma)
51a0937.1 P. gelattana Wright, 2007 (Pelochrista) [NEW]

Pelochrista section 3 Wright & Gilligan, 2017

Pelochrista ridingsana group Wright & Gilligan, 2017

51a0938.1 P. ridingsana (Robinson, 1869) (Conchylis) 3014
magnidicana (Heinrich, 1923) (Eucosma) *[3017]*
51a0938.2 P. argentifurcatana (Grote, 1876) (Conchylis) [NEW]
hipeana (Grote, 1876) (Conchylis)
51a0939.1 P. griselda (Blanchard & Knudson, 1981) (Eucosma) [NEW]
51a0940.1 P. fernaldana (Grote, 1880) (Paedisca) 3015
51a0941.1 P. immaculana (Kearfott, 1907) (Eucosma) 3063
betana (McDunnough, 1942) (Eucosma) *[3016]*
51a0942.1 P. aurilineana (Ferris, 2005) (Eucosma) [NEW]
51a0943.1 P. sandiego (Kearfott, 1908) (Eucosma) 3023
sandiegana (Meyrick, 1912) (Eucosma)
51a0944.1 P. atascosana (Blanchard, 1980) (Eucosma) [NEW]

Pelochrista luridana group Wright & Gilligan, 2017

51a0945.1 P. luridana (Walsingham, 1879) (Paedisca) 3057
51a0946.1 P. totana (Kearfott, 1907) (Eucosma) 3089
spodias (Meyrick, 1912) (Eucosma)
51a0947.1 P. taosana (Wright, 2005) (Eucosma) [NEW]
51a0948.1 P. larana (Walsingham, 1879) (Paedisca) 3092
emaciatana of authors; (not Walsingham, 1884) (Paedisca) misid.
NOTE: Misidentification by Heinrich (1923).
51a0949.1 P. nordini (Wright, 2005) (Eucosma) [NEW]
51a0950.1 P. piperata (Wright, 2005) (Eucosma) [NEW]
51a0951.1 P. eburata (Heinrich, 1929) (Eucosma) 3085
williamsi (Powell, 1963) (Eucosma) *[3102]*
51a0952.1 P. invicta (Walsingham, 1895) (Paedisca) 3083
51a0953.1 P. subinvicta (Kearfott, 1907) (Eucosma) 3086
51a0954.1 P. snyderana (Kearfott, 1907) (Eucosma) 3087
sperryana (McDunnough, 1942) (Eucosma) *[3084]*

Pelochrista canana group Wright & Gilligan, 2017

51a0955.1 P. canana (Walsingham, 1879) (Paedisca) 3141
expolitana (Heinrich, 1923) (Eucosma) *[3164]*
metariana (Heinrich, 1923) (Eucosma) *[3166]*
51a0955.2 P. artesiana Wright & Gilligan, 2017 (Pelochrista) [NEW]
51a0955.3 P. erema Wright & Gilligan, 2017 (Pelochrista) [NEW]
51a0956.1 P. rorana (Kearfott, 1907) (Eucosma) 3165
sceletopa (Meyrick, 1912) (Eucosma)
51a0957.1 P. vandana (Kearfott, 1907) (Eucosma) 3170
pholas (Meyrick, 1912) (Eucosma)
51a0958.1 P. passerana (Walsingham, 1879) (Paedisca) 3167
51a0959.1 P. womonana (Kearfott, 1907) (Eucosma) 3169
seminitis (Meyrick, 1912) (Eucosma)
51a0960.1 P. zomonana (Kearfott, 1907) (Eucosma) 3168
explosa (Meyrick, 1912) (Eucosma)
51a0960.2 P. olivacea Wright & Gilligan, 2017 (Pelochrista) [NEW]
51a0960.3 P. flava Wright & Gilligan, 2017 (Pelochrista) [NEW]

Pelochrista emaciatana group Wright & Gilligan, 2017

51a0961.1 P. emaciatana (Walsingham, 1884) (Paedisca) 3088
perpropinqua (Heinrich, 1929) (Eucosma) *[3158]*
51a0962.1 P. popana (Kearfott, 1907) (Eucosma) 3154
carcharias (Meyrick, 1912) (Eucosma)
51a0963.1 P. powelli Wright, 2005 (Pelochrista) [NEW]

Pelochrista reversana group Wright & Gilligan, 2017

51a0964.1 P. reversana (Kearfott, 1907) (Eucosma) 3157
51a0965.1 P. ainsliei Wright, 2008 (Pelochrista) [NEW]
occipitana of authors; (not Zeller, 1876) (Paedisca) misid.
NOTE: Misidentification by Heinrich (1923).
51a0966.1 P. kingi Wright, 2008 (Pelochrista) [NEW]

Pelochrista [section 3 ungrouped]

51a0967.1 P. blanchardi (Wright, 2012) (Eucosma) [NEW]
51a0968.1 P. johnstoni (Wright, 2012) (Eucosma) [NEW]
51a0969.1 P. ragonoti (Walsingham, 1895) (Paedisca) 3030
barnesiana (Dyar, 1903) (Eucosma)
51a0970.1 P. kandana (Kearfott, 1907) (Eucosma) [NEW]
argillacea (Meyrick, 1912) (Eucosma)
perdricana of authors; (not Walsingham, 1879) (Paedisca) misid.
NOTE: Misidentification by Heinrich (1923).
51a0971.1 P. nandana (Kearfott, 1907) (Eucosma) 3112
chersaea (Meyrick, 1912) (Eucosma)
fuscana (Kearfott, 1907) (Eucosma) *[3145]*
51a0972.1 P. corosana (Walsingham, 1884) (Paedisca) 3162
nuntia (Heinrich, 1929) (Eucosma) *[3130]*
51a0973.1 P. scintillana (Clemens, 1865) (Callimosema) 3151
circulana of authors; (not Hübner, 1823) (Tortrix) misid.
NOTE: Longstanding misidentification originating with Fernald (1882).
dodecana (Zeller, 1876) (Paedisca)
paraglypta (Meyrick, 1912) (Eucosma)
randana (Kearfott, 1907) (Eucosma)

Pelochrista section 4 Wright & Gilligan, 2017

Pelochrista pulveratana group Wright & Gilligan, 2017

51a0974.1 P. pulveratana (Walsingham, 1879) (Paedisca) 3132
51a0975.1 P. consobrinana (Heinrich, 1923) (Eucosma) 3133
51a0976.1 P. suadana (Heinrich, 1923) (Eucosma) 3139
aeana (McDunnough, 1942) (Eucosma) *[3140]*
51a0977.1 P. seamansi (Wright, 2011) (Eucosma) [NEW]
51a0978.1 P. coconana (Wright, 2011) (Eucosma) [NEW]
51a0979.1 P. sepiana (Wright, 2011) (Eucosma) [NEW]
51a0980.1 P. parapulveratana (Wright, 2011) (Eucosma) [NEW]
51a0981.1 P. floridensis (Wright, 2011) (Eucosma) [NEW]
51a0982.1 P. navajoensis (Wright, 2011) (Eucosma) [NEW]
51a0983.1 P. costastriata (Wright, 2011) (Eucosma) [NEW]
51a0984.1 P. mirosignata (Heinrich, 1929) (Eucosma) 3138
microsignata; (Brown, 2005) (Eucosma) missp.
51a0985.1 P. mojaveana (Wright, 2011) (Eucosma) [NEW]

Pelochrista palpana group Wright & Gilligan, 2017

51a0986.1 P. mediostriata (Walsingham, 1895) (Paedisca) 3104
sepulchrana; (Clarke, 1958) (Eucosma) missp. *[3062]*
sepulcrana (Meyrick, 1927) (Eucosma)
51a0987.1 P. palpana (Walsingham, 1879) (Paedisca) 3160
51a0988.1 P. gilligani Wright, 2008 (Pelochrista) [NEW]

Pelochrista matutina group Wright & Gilligan, 2017

51a0989.1 P. matutina (Grote, 1873) (Penthina) 3091
grotiana (Kearfott, 1908) (Eucosma) *[3078]*
51a0990.1 P. fiskeana (Kearfott, 1905) (Eucosma) 3129
pandana (Kearfott, 1907) (Eucosma) *[3128]*
sardiopa (Meyrick, 1912) (Eucosma)
51a0991.1 P. symbolaspis (Meyrick, 1927) (Eucosma) 3182
51a0992.1 P. sullivani Wright, 2015 (Pelochrista) [NEW]
51a0993.1 P. lynxana Wright, 2015 (Pelochrista) [NEW]

Pelochrista juncticiliana group Wright & Gilligan, 2017

51a0994.1 P. juncticiliana (Walsingham, 1879) (Paedisca) 3119
excusabilis (Heinrich, 1923) (Eucosma) *[3121]*
51a0995.1 P. derelicta (Heinrich, 1929) (Eucosma) [NEW]
derelecta; [various, no date] (Pelochrista) missp. *[3120]*

Pelochrista cataclystiana group Wright & Gilligan, 2017

51a0996.1 P. cataclystiana (Walker, 1863) (Paedisca) 3142
51a0997.1 P. conspiciendana (Heinrich, 1923) (Eucosma) 3143

Pelochrista grandiflavana group Wright & Gilligan, 2017

51a0998.1 P. grandiflavana (Walsingham, 1879) (Paedisca) 3096
51a0999.1 P. subflavana (Walsingham, 1879) (Paedisca) 3060
51a1000.1 P. consociana (Heinrich, 1923) (Eucosma) 3058
51a1000.2 P. murina Wright & Gilligan, 2017 (Pelochrista) [NEW]
51a1001.1 P. irroratana (Walsingham, 1879) (Paedisca) 3059
perdricana (Walsingham, 1879) (Paedisca) *[3054]*
51a1002.1 P. handana (Kearfott, 1907) (Eucosma) 3061
caramitis; Heinrich, 1923 (Pelochrista) missp.
ceramitis (Meyrick, 1912) (Eucosma)
51a1002.2 P. aurantiaca Wright & Gilligan, 2017 (Pelochrista) [NEW]

Pelochrista primulana group Wright & Gilligan, 2017

51a1003.1 P. primulana (Walsingham, 1879) (Paedisca) 3108
51a1004.1 P. biplagata (Walsingham, 1895) (Paedisca) 3107
51a1005.1 P. hennei (Clarke, 1947) (Eucosma) 3117
51a1006.1 P. hasseanthi (Clarke, 1952) (Eucosma) 3109

Pelochrista dorsisignatana group Wright & Gilligan, 2017

51a1007.1 P. dorsisignatana (Clemens, 1860) (Poecilochroma) 3116
clavana (Zeller, 1876) (Paedisca)
diffusana (Kearfott, 1905) (Eucosma)
distigmana (Walker, 1863) (Carpocapsa)
51a1007.2 P. wagneri Wright & Gilligan, 2017 (Pelochrista) [NEW]
51a1008.1 P. similiana (Clemens, 1860) (Poecilochroma) [NEW]
confluana (Kearfott, 1905) (Eucosma)
engelana (Kearfott, 1908) (Eucosma)
similana; (Fernald, 1882) (Poecilochroma) missp.
51a1009.1 P. oraria (Wright, 2011) (Eucosma) [NEW]

Pelochrista [section 4 ungrouped]

51a1010.1 P. dilatana (Walsingham, 1895) (Paedisca) 3111
51a1010.2 P. arizonae Wright & Gilligan, 2017 (Pelochrista) [NEW]
51a1011.1 P. sierrae (Blanchard & Knudson, 1983) (Eucosma) [NEW]
51a1012.1 P. shastana (Walsingham, 1879) (Paedisca) 3095
51a1013.1 P. notialis (Miller, 1985) (Eucosma) [NEW]
matutina of authors; (not Grote, 1873) (Penthina) misid.
NOTE: Misidentification by Heinrich (1923).
51a1014.1 P. angelana (Wright, 2012) (Eucosma) [NEW]
51a1015.1 P. argenteana (Walsingham, 1895) (Paedisca) 3149
idahoana (Kearfott, 1907) (Eucosma) *[3150]*
51a1016.1 P. serpentana (Walsingham, 1895) (Paedisca) 3031
ophionana (McDunnough, 1925) (Eucosma) *[3032]*
51a1017.1 P. lolana (Kearfott, 1907) (Eucosma) 3080
leucomalla (Meyrick, 1912) (Eucosma)
51a1018.1 P. hohana (Kearfott, 1907) (Eucosma) 3135
syrtodes (Meyrick, 1912) (Eucosma)
51a1019.1 P. maculatana (Walsingham, 1879) (Paedisca) 3064
51a1020.1 P. dodana (Kearfott, 1907) (Eucosma) 3081
annulata (Meyrick, 1912) (Eucosma)
fofana (Kearfott, 1907) (Eucosma) *[3082]*
spilophora (Meyrick, 1912) (Eucosma)
51a1020.2 P. bactrana (Heinrich, 1923) (Eucosma) [NEW]
abstemia (Meyrick, 1932) (Eucosma) *[3106]*
51a1021.1 P. inquadrana (Walsingham, 1884) (Aphelia) 3131
51a1022.1 P. quinquemaculana (Robinson, 1869) (Conchylis) 3008
51a1023.1 P. pallidipalpana (Kearfott, 1905) (Eucosma) 3153
51a1024.1 P. fratruelis (Heinrich, 1923) (Eucosma) 3152
51a1024.2 P. chiricahuae Wright & Gilligan, 2017 (Pelochrista) [NEW]
51a1025.1 P. milleri Wright, 2007 (Pelochrista) [NEW]

[Pelochrista unassigned to section]

51a1026.1 P. heinrichi (McDunnough, 1925) (Eucosma) 3094
51a1026.2 P. opleri Wright & Gilligan, 2017 (Pelochrista) [NEW]
51a1027.1 P. dapsilis (Heinrich, 1929) (Eucosma) 3028
51a1028.1 P. rufocostana (Wright, 2012) (Eucosma) [NEW]
51a1029.1 P. jejunana (McDunnough, 1942) (Eucosma) 3136
51a1030.1 P. louisana (McDunnough, 1944) (Eucosma) 3055
51a1031.1 P. cinereolineana (Heinrich, 1923) (Thiodia) 2962
51a1032.1 P. candida (Wright, 2012) (Eucosma) [NEW]
51a1033.1 P. graduatana (Walsingham, 1879) (Paedisca) 3118
51a1034.1 P. occipitana (Zeller, 1876) (Paedisca) 3156
51a1035.1 P. aspidana (Walsingham, 1884) (Paedisca) 3134
51a1036.1 P. excerptionana (Heinrich, 1923) (Eucosma) 3105
51a1037.1X P. medullana (Staudinger, 1879) (Grapholitha)
EXTIRPATED I [NEW]
NOTE: This species was introduced from Europe for biocontrol of *Centaurea* spp. (Asteraceae) but did not establish (Sheley et al. 1998; Weeden et al. 2002).

Genus EPIBLEMA Hübner, [1825]

ID INFO (partial): Heinrich (1923); also Miller (1985c), R. L. Brown & Powell (1991), Wright (2002), Wright & Covell (2003), Gilligan et al. (2020b), Wright & Gilligan (2021).
NOTE: Species are arranged following Wright & Gilligan (unpublished).
CACOCHROEA Lederer, 1859
EPIBLEMMA; Hübner, [1825] missp.
EURYPTYCHIA Clemens, 1865
EURYTYCHIA; Heinrich, 1923 missp.
MONOSPHRAGIS Clemens, 1850

51a1065 E. strenuana (Walker, 1863) (Grapholita) 3172
exvagana (Walker, 1863) (Grapholita)
flavocellana (Clemens, 1865) (Steganoptycha)
subversana (Zeller, 1876) (Grapholita)
51a1065.1 E. minutana (Kearfott, 1905) (Eucosma) [NEW]
NOTE: Elevated to species status by Gilligan et al. (2020b).
antaxia (Meyrick, 1920) (Eucosma)
51a1068 E. luctuosissima Blanchard, 1984 (Epiblema) [NEW]
NOTE: Replacement name for the homonym *luctuosana* Blanchard (1979), a junior homonym of *Epiblema luctuosana* (Duponchel, in: Godart, 1835).
luctuosana Blanchard, 1979 (Epiblema)
51a1074 E. ochraceana Fernald, 1901 (Epiblema) 3179
51a1075 E. sosana (Kearfott, 1907) (Eucosma) 3180
pelina (Meyrick, 1912) (Eucosma)
51a1075.3 E. carolinana (Walsingham, 1895) (Paedisca) 3192
51a1075.4 E. arizonana Powell, 1975 (Epiblema) 3193
51a1078 E. tripartitana (Zeller, 1876) (Paedisca) 3184
51a1079 E. glenni Wright, 2002 (Epiblema) [NEW]
51a1082 E. scudderiana (Clemens, 1860) (Hedya) 3186
affusana (Zeller, 1876) (Paedisca)
saligneana (Clemens, 1865) (Eurytychia)
51a1082.1 E. benignata McDunnough, 1925 (Epiblema) 3185
51a1082.2 E. infelix Heinrich, 1923 (Epiblema) 3201
51a1082.3 E. gibsoni Wright & Covell, 2003 (Epiblema) [NEW]
51a1085 E. desertana (Zeller, 1876) (Paedisca) 3190
51a1086 E. rudei Powell, 1975 (Epiblema) 3191
51a1086.1 E. discretivana (Heinrich, 1921) (Eucosma) 3188
51a1086.2 E. obfuscana (Dyar, 1903) (Eucosma) 3189
obfuscata (Riley, 1888) (Paedisca)
51a1086.3 E. radicana (Walsingham, 1879) (Paedisca) 3195

gratuitana Heinrich, 1923 (Epiblema)
serangias (Meyrick, 1912) (Eucosma)
vomonana (Kearfott, 1907) (Eucosma)

51a1089 E. hirsutana (Walsingham, 1879) (Paedisca) 3194
51a1089.1 E. lyallana McDunnough, 1935 (Epiblema) 3200
51a1090 E. deverrae Brown, 1991 (Epiblema) [NEW]
51a1093 E. periculosana Heinrich, 1923 (Epiblema) 3197
51a1093.1 E. arctica Miller, 1985 (Epiblema) [NEW]
NOTE: DNA barcode data and genital morphology indicate that *E. simploniana* is Palaearctic, separate from the Nearctic *E. arctica* which Gilligan et al. (2020a) elevated from synonymy.
simploniana of authors; (not Duponchel, 1835) (Carpocapsa) misappl.
51a1093.2 E. walsinghami (Kearfott, 1907) (Enarmonia) 3196
51a1094 E. iowana McDunnough, 1935 (Epiblema) 3198
naoma Clarke, 1953 (Epiblema) *[3199]*
51a1098 E. otiosana (Clemens, 1860) (Monosphragis) 3202
inclinana (Zeller, 1876) (Paedisca)
51a1102 E. dorsisuffusana (Kearfott, 1908) (Eucosma) 3206
51a1102.1 E. boxcana (Kearfott, 1907) (Eucosma) 3171
aspista (Meyrick, 1912) (Eucosma)
51a1102.2 E. resumptana (Walker, 1863) (Penthina) 3205
abbreviatana (Walsingham, 1879) (Paedisca)
51a1103 E. macneilli Powell, 1975 (Epiblema) 3207
51a1103.1 E. brightonana (Kearfott, 1907) (Eucosma) 3203
51a1103.3 E. fulminana (Walsingham, 1879) (Paedisca) 3124
NOTE: Moved from *Sonia* by Wright & Gilligan (2021).
51a1103.4 E. alba Wright & Gilligan, 2021 (Epiblema) [NEW]
51a1103.5 E. tandana (Kearfott, 1907) (Eucosma) 3204
trapezitis (Meyrick, 1912) (Eucosma)
51a1103.6 E. numerosana (Zeller, 1876) (Paedisca) 3174
51a1103.7 E. deflexana Heinrich, 1923 (Epiblema) 3178
51a1103.8 E. abruptana (Walsingham, 1879) (Paedisca) 3173
51a1104 E. mandana (Kearfott, 1907) (Eucosma) 3123
amanda (Meyrick, 1912) (Eucosma)
51a1104.1 E. exacerbatricana Heinrich, 1923 (Epiblema) 3183
51a1104.3 E. praesumptiosa Heinrich, 1923 (Epiblema) 3176
51a1104.4 E. grossbecki Heinrich, 1923 (Epiblema) 3175
51a1104.5 E. chromata Miller, 1985 (Epiblema) [NEW]
51a1104.6 E. insidiosana Heinrich, 1923 (Epiblema) 3181
51a1104.7 E. separationis Heinrich, 1923 (Epiblema) 3177
51a1104.9 E. sticticana (Fabricius, 1794) (Pyralis) H/I [NEW]
NOTE: DNA barcode data in BOLD identified a single specimen from NL collected in 2009 that is conspecific with *E. sticticana* from Europe; confirmed by Gilligan et al. (2020a).
brunichana (Fabricius, 1787) (Pyralis)
farfarae (Fletcher, 1938) (Eucosma)
kemnerana Lewin, 1942 (Epiblema)
melstediana Larsen, 1927 (Epiblema)
quadratana Eversmann, 1844 (Epiblema)

Genus SONIA Heinrich, 1923
ID INFO (partial): Heinrich (1923); also Blanchard (1979), Miller (1990).
NOTE: Species are arranged following Wright & Gilligan (unpublished).

51a1116 S. constrictana (Zeller, 1876) (Paedisca) 3218
51a1117 S. paraplesiana Blanchard, 1979 (Sonia) [NEW]
51a1118 S. canadana McDunnough, 1925 (Sonia) 3219
51a1118.5 S. divaricata Miller, 1990 (Sonia) [NEW]
51a1120 S. comstocki Clarke, 1952 (Sonia) 3221
51a1121 S. filiana (Busck, 1907) (Hendecaneura) 3222
51a1121.1 S. vovana (Kearfott, 1907) (Eucosma) 3220
fraternana (Busck, 1907) (Hendecaneura)
typicodes (Meyrick, 1912) (Eucosma)

Genus SULEIMA Heinrich, 1923
ID INFO: Heinrich (1923); also Blanchard & Knudson (1983b).
NOTE: Species are arranged following Wright & Gilligan (unpublished).

51a1121.5 S. helianthana (Riley, 1881) (Semasia) 3212
51a1121.6 S. lagopana (Walsingham, 1884) (Steganoptycha) 3215
51a1122.1 S. baracana (Kearfott, 1907) (Thiodia) 3216
caracana (Kearfott, 1907) (Thiodia)
famosa (Meyrick, 1912) (Thiodia)
oxyleuca (Meyrick, 1912) (Thiodia)
51a1122.4 S. skinnerana Heinrich, 1923 (Suleima) 3214
51a1122.6 S. daracana (Kearfott, 1907) (Thiodia) 3213
profana (Meyrick, 1912) (Thiodia)
51a1122.7 S. cinerodorsana Heinrich, 1923 (Suleima) 3217
51a1122.9 S. mendaciana Blanchard & Knudson, 1983 (Suleima) [NEW]

Genus NOTOCELIA Hübner, 1825
NOTE: Species are arranged following Wright & Gilligan (unpublished).
ASPIDIA Duponchel, 1834
ASPIS Treitschke, 1829
BARDIA Obraztsov, 1965
PARDIA Guenée, 1845

51a1123.1 N. culminana (Walsingham, 1879) (Paedisca) 3211
51a1123.3 N. illotana (Walsingham, 1879) (Paedisca) 3210
51a1123.4 N. cynosbatella (Linnaeus, 1758) (Phalaena) I [NEW]
NOTE: Introduced from Europe, first found in BC in 1978 (Mutuura 1980); confirmed with DNA barcode data by Gilligan et al. (2020a).
tripunctana ([Denis & Schiffermüller], 1775) (Tortrix)
51a1123.5 N. purpurissatana (Heinrich, 1923) (Epiblema) 3209
51a1123.6 N. rosaecolana (Doubleday, 1850) (Spilonota) I [NEW]
NOTE: Introduced from Europe (Miller et al. 2000); confirmed with DNA barcode data by Gilligan et al. (2020a). The Old World names *suffusana* and *trimaculana* have been historically applied to NA populations; see Brown (1979) and Miller et al. (2000).
rosae (Matsumura, 1917) (Argyloploce [sic])
suffusana of authors; (not Duponchel, in: Godart, 1842) (Aspidia) misappl.
trimaculana of authors; (not Haworth, [1811]) (Tortrix) misappl. *[3208]*

Genus GYPSONOMA Meyrick, 1895

51a1124 G. fasciolana (Clemens, 1864) (Anchylopera) 3223
blakeana (Grote, 1873) (Penthina)
51a1125 G. nebulosana (Packard, [1867] 1866) (Grapholitha) 3224
51a1126 G. parryana (Curtis, 1835) (Argyrotosa) H 3225
arcticana Kuznetzov, 1979 (Gypsonoma)
51a1127 G. haimbachiana (Kearfott, 1907) (Epinotia) 3226
51a1128 G. substitutionis Heinrich, 1923 (Gypsonoma) 3227
incarnana of authors; (not Haworth, [1811]) (Tortrix) misappl.
NOTE: A longstanding misapplication of this Palaearctic name (e.g., by Kearfott 1905) was pointed out by Heinrich (1923).
51a1129 G. salicicolana (Clemens, 1864) (Hedya) 3228
saliciana (Clemens, 1864) (Hedya)
51a1130 G. adjuncta Heinrich, 1924 (Gypsonoma) 3229
51a1131E G. nitidulana (Lienig & Zeller, 1846) (Phoxopteris) EXCL. [NEW]
NOTE: This species was reported from YT by Lafontaine & Wood (1997). However, Pohl & Dombroskie (in Pohl et al. 2018) could not locate any vouchers, and Gilligan et al. (2020a) found no DNA barcode evidence that this species is present in NA. Mitochondrial DNA may not be sufficient for separation of *Gypsonoma* species, and further work is required on this group.
51a1132 G. aceriana (Duponchel, 1842) (Penthina) I [NEW]
NOTE: Introduced from Europe (Miller & LaGasa 2001); confirmed with DNA barcode data by Gilligan et al. (2020a).

Genus PROTEOTERAS Riley, 1881

51a1133 P. aesculana Riley, 1881 (Proteoteras) 3230
51a1134 P. implicata Heinrich, 1924 (Proteoteras) 3231
51a1135 P. willingana (Kearfott, 1904) (Proteopteryx) 3232
51a1136 P. crescentana Kearfott, 1907 (Proteoteras) 3233
51a1137 P. naracana Kearfott, 1907 (Proteoteras) 3234
praesinospila Meyrick, 1912 (Proteoteras)
51a1138 P. moffatiana Fernald, 1905 (Proteoteras) 3235
51a1139 P. arizonae Kearfott, 1907 (Proteoteras) 3236
51a1140 P. obnigrana Heinrich, 1923 (Proteoteras) 3237

Genus ZEIRAPHERA Treitschke, 1829
ID INFO: Mutuura & Freeman (1966).
CHARLOTTA Forbes, 1923
SINUSIA Caradja, 1916

51a1141 Z. claypoleana (Riley, 1882) (Proteoteras) 3238
51a1142 Z. pacifica Freeman, 1966 (Zeiraphera) 3239
51a1143 Z. canadensis Mutuura & Freeman, [1967] (Zeiraphera) 3240
ratzeburgiana of authors; (not Saxesen, 1840) (Tortrix) misappl.
NOTE: This Old World name was in wide use historically in NA, including by Heinrich (1923) and Forbes (1923).
51a1144 Z. improbana (Walker, 1863) (Sciaphila) 3241
NOTE: The Old World name *Z. griseana* and its synonyms *diniana* and *pinicolana* have been widely used for this species in NA.
diffiniana (Walker, 1863) (Paedisca)
diniana of authors; (not Guenée, 1845) (Sphaleroptera) misappl.

griseana of authors; (not Hübner, 1799) (Tortrix) misappl.
indivisana (Walker, 1863) (Sciaphila)
pinicolana of authors; (not Lienig & Zeller, 1846) (Grapholitha) misappl.
pseudotsugana (Kearfott, 1904) (Cydia)

51a1145 Z. fortunana (Kearfott, 1907) (Epinotia) 3242
51a1146 Z. unfortunana Ferris & Kruse, 2008 (Zeiraphera) [NEW]
NOTE: The name *unfortunana* was originally proposed without a description by Powell (in Hodges et al. 1983). It was formally described by Ferris & Kruse (2008).
destitutana (Walker, 1863) (Sciaphila)
unfortunana Powell, 1983 (Zeiraphera) [3243]
unfortunata; [various, no date] (Zeiraphera) missp.
51a1147 Z. hesperiana Mutuura & Freeman, [1967] (Zeiraphera) 3244
51a1148 Z. vancouverana McDunnough, 1925 (Zeiraphera) 3245
51a1149 Z. liturana (Walsingham, 1879) (Steganoptycha) 3146

Genus PSEUDEXENTERA Heinrich, 1940
ID INFO: Miller (1986a).

51a1150 P. cressoniana (Clemens, 1864) (Hedya) 3246
caryana McDunnough, 1940 (Pseudexentera) [3249]
51a1151 P. faracana (Kearfott, 1907) (Proteopteryx) 3253
ultrix (Meyrick, 1912) (Proteopteryx)
51a1152 P. sepia Miller, 1986 (Pseudexentera) [NEW]
51a1153 P. hodsoni Miller, 1986 (Pseudexentera) [NEW]
51a1154 P. knudsoni Miller, 1986 (Pseudexentera) [NEW]
51a1155 P. haracana (Kearfott, 1907) (Proteopteryx) 3252
resoluta (Meyrick, 1912) (Proteopteryx)
51a1156 P. oreios Miller, 1986 (Pseudexentera) [NEW]
51a1157 P. spoliana (Clemens, 1864) (Hedya) 3251
51a1158 P. mali Freeman, 1942 (Pseudexentera) 3247
51a1159 P. oregonana (Walsingham, 1879) (Semasia) 3248
51a1160 P. kalmiana McDunnough, 1959 (Pseudexentera) 3255
51a1161 P. maracana (Kearfott, 1907) (Proteopteryx) 3254
praescripta (Meyrick, 1912) (Proteopteryx)
51a1162 P. vaccinii Miller, 1986 (Pseudexentera) [NEW]
51a1163 P. habrosana (Heinrich, 1923) (Exentera) 3256
51a1164 P. senatrix (Heinrich, 1924) (Exentera) 3250
51a1165 P. costomaculana (Clemens, 1860) (Anchylopera) 3257
bipustulana (Walker, 1863) (Batodes)
51a1166 P. virginiana (Clemens, 1864) (Anchylopera) 3258

Genus GRETCHENA Heinrich, 1923
ID INFO: Heinrich (1923); also Brown (1982), Blanchard & Knudson (1983b).
GRETCHINA; Forbes, 1923 missp.
GWENDOLINA Heinrich, 1923

51a1167 G. deludana (Clemens, 1864) (Hedya) 3259
51a1168 G. concubitana Heinrich, 1923 (Gretchena) 3260
51a1169 G. watchungana (Kearfott, 1907) (Epinotia) 3261
51a1170 G. dulciana Heinrich, 1923 (Gretchena) 3262
51a1171 G. bolliana (Slingerland, 1896) (Steganoptycha) 3263
51a1172 G. amatana Heinrich, 1923 (Gretchena) 3264
51a1173 G. delicatana Heinrich, 1923 (Gretchena) 3265
51a1174 G. obsoletana Brown, 1982 (Gretchena) [NEW]
biangulana of authors; (not Walsingham, 1879) (Steganoptycha) misappl. [3266]
NOTE: The name "*G. biangulana* of authors" was treated as a biological species by Powell (in Hodges et al. 1983).
51a1175 G. nymphana Blanchard & Knudson, 1983 (Gretchena) [NEW]
51a1176 G. semialba McDunnough, 1925 (Gretchena) 3267
51a1177 G. concitatricana (Heinrich, 1923) (Gwendolina) 3268

Genus CHIMOPTESIS Powell, 1964

51a1178 C. chrysopyla Powell, 1964 (Chimoptesis) 3270
51a1179 C. matheri Powell, 1964 (Chimoptesis) 3271
51a1180 C. gerulae (Heinrich, 1923) (Griselda) 3272
51a1181 C. pennsylvaniana (Kearfott, 1907) (Proteopteryx) 3273

Genus CROCIDOSEMA Zeller, 1847
NOTE: This genus was listed twice in Pohl et al. (2016), placed before and after *Epinotia*.
HELIGMOCERA Walsingham, 1891
PARASULEIMA Clarke, 1965

51a1181.5 C. aporema (Walsingham, 1914) (Eucosma) 3332
NOTE: This species was described from Costa Rica and is considered a major pest of soybean (*Glycine max* (L.) Merr.; Fabaceae) in Central and South America. Specimens identified as *C. aporema* have been collected in Brownsville, TX in the 1940s, and JWB identified a specimen collected in TX in 1984 as this species. Recent DNA barcode analyses have demonstrated that the name *aporema* has been applied to at least four groups that likely represent different species. Three groups of "*aporema*" are present in Costa Rica, and these are different from the soybean pest found throughout much of South America. More taxonomic work is needed to resolve these issues.
opposita (Heinrich, 1931) (Epinotia)
NOTE: This taxon was described from Lima, Peru. Recent DNA studies suggest that *aporema*, described from Costa Rica, is a separate taxon from the soybean pest found in South America. As such, *opposita* might be the name that should be applied to the South American pest. Further taxonomic work is needed.
51a1183 C. lantana Busck, 1910 (Crocidosema) I 3279
NOTE: This is a Neotropical species introduced in several countries for biocontrol of *Lantana* spp. (Verbenaceae); in NA it is present in FL.
corynetes (Diakonoff, 1982) (Epinotia)
eridela (Turner, 1946) (Eucosma)
perversa (Turner, 1946) (Eucosma)
phaedropa Turner, 1946 (Crocidosema)
polyphaea Turner, 1926 (Crocidosema)
turnocosma Turner, 1946 (Crocidosema)
51a1186 C. longipalpana (Möschler, 1891) (Grapholitha) [NEW]
litchivora Baixeras, 2002 (Crocidosema)
NOTE: Synonymy by Brown (2005).
51a1186.1 C. perplexana (Fernald, 1901) (Epiblema) 3287
51a1186.2 C. plebejana Zeller, 1847 (Crocidosema) H? 3274
NOTE: DNA barcode data in BOLD indicate that *C. plebejana* populations on each continent might be separate species (Gilligan et al. 2020a); similar findings have been observed by other authors (e.g., Lincango 2015; Razowski 2003). Thus, it is possible that the taxon referred to as *C. plebejana* in NA is a different species. However, it is retained here pending further taxonomic work.
plebiana; Meyrick, 1881 (Crocidosema) emend.
ptiladelpha Meyrick, 1917 (Crocidosema)
51a1186.3 C. unica (Heinrich, 1923) (Epinotia) 3330

Genus HENDECANEURA Walsingham, 1900
EUCOSMODES Kuznetzov, 1973

51a1187 H. shawiana (Kearfott, 1907) (Enarmonia) 3275

Genus RHOPOBOTA Lederer, 1859
ID INFO: Heinrich (1923); also Miller (1987), Gilligan et al. (2008).
ERINAEA Meyrick, 1907
EUMARISSA Clarke, 1976
KUNDRYA Heinrich, 1923
KUNDYRA Razowski, 1977
NORMA Heinrich, 1923

51a1188 R. naevana (Hübner, [1817]) (Tortrix) H [NEW]
NOTE: Recognized as Holarctic and reported for NA by Razowski (2003); confirmed with DNA barcode data by Gilligan et al. (2020a).
geminana (Stephens, 1852) (Lithographia)
ilicifoliana (Kearfott, 1907) (Epinotia)
luctiferana (Walker, 1863) (Sciaphila)
malivorella (Matsumura, 1931) (Laspeyresia)
microrrhyncha (Meyrick, 1931) (Acroclita)
unipunctana (Haworth, 1811) (Tortrix) preocc. [3276]
vacciniana (Packard, 1869) (Anchylopera)
51a1189 R. dietziana (Kearfott, 1907) (Epinotia) 3277
51a1190 R. finitimana (Heinrich, 1923) (Kundrya) 3278

Genus EPINOTIA Hübner, [1825]
ID INFO: Heinrich (1923); also Brown (1980a, b, 1986), Brown & Brown (2018).
ACALLA Hübner, [1825]
ASTATIA Hübner, [1825]
ASTHENIA Hübner, [1825]
CARTELLA Stephens, 1852
EPINOTIS; Kearfott, 1907 missp.
EVERTIA; Matsumura, 1931 missp.
EVETRIA Hübner, 1825
GRISELDA Heinrich, 1923
HAMULIGERA Obraztsov, 1946
HIKAGEHAMAKIA Oku, 1974
HYPERMECIA Guenée, 1845
LITHOGRAPHIA Stephens, 1852
NEURASTHENIA Pierce & Metcalfe, 1922
PAEDISCA Treitschke, 1830
PAMPLUSIA Guenée, 1845
PANOPLIA Hübner, 1825
PARAGRAPHA Sodoffsky, 1837
PHLAEODES Guenée, 1845

PODISCA Guenée, 1845
POECILOCHROMA Stephens, 1829
PROTEOPTERYX Walsingham, 1879
STEGANOPTYCHA Stephens, 1829

51a1191 E. radicana (Heinrich, 1923) (Griselda) 3269
51a1192 E. trigonella (Linnaeus, 1758) (Phalaena) H [NEW]
NOTE: Pohl & Dombroskie (in Pohl et al. 2018) included the unpublished manuscript name *jasperana* (Brown 1980a) under *E. trigonella*, making the latter Holarctic; this was confirmed with DNA barcode data by Gilligan et al. (2020a).
bimaculana (Donovan, [1808]) (Phalaena)
biscutana (Wocke, 1862) (Grapholitha)
dissimilana (Treitschke, 1835) (Paedisca)
indecorana (Zetterstedt, 1839) (Teras)
NOTE: Karsholt et al. (2015) treat *indecorana* from GR as a separate species; DNA barcode data in BOLD are not sufficient to support or refute this hypothesis.
jasperana Brown, 1980 (Epinotia) nom. nud.
petalonota (Meyrick, 1937) (Eucosma) [3147]
similana (Hübner, 1793) (Phalaena)
stroemiana (Fabricius, 1781) (Pyralis) [3280]
51a1193 E. sperana McDunnough, 1935 (Epinotia) 3281
51a1194 E. myricana McDunnough, 1933 (Epinotia) 3282
51a1195 E. solandriana (Linnaeus, 1758) (Phalaena) H 3283
NOTE: This species is currently considered Holarctic (Brown 1980a; Razowski 2003). Gilligan et al. (2020a) found that while DNA barcodes were placed in a single BIN, they clustered according to continent, suggesting that it is naturally Holarctic and that there could be two different species.
albosinuana (Grabe, 1944) (Epiblema)
parmatana (Hübner, [1814-1817]) (Tortrix)
ratana (Hübner, [1811-1813]) (Tortrix)
rhenana (Thunberg & Becklin, 1791) (Tortrix)
semilunana (Frölich, 1828) (Tortrix)
semimaculana (Hübner, 1793) (Phalaena)
trapezana (Fabricius, 1787) (Pyralis)
51a1196 E. abbreviana (Fabricius, 1794) (Pyralis) I [NEW]
NOTE: Introduced from Europe, first found in NL (Dang 1993).
excruciana (Stephens, 1852) (Poecilochroma)
lithoxylana (Frölich, 1828) (Tortrix)
stannana (Guenée, 1845) (Grapholitha)
trimaculana (Donovan, [1806]) (Phalaena)
ulmariana (Duponchel, in: Godart, 1842) (Grapholitha)
ulmetana (Lienig & Zeller, 1846) (Grapholitha)
51a1197 E. ethnica Heinrich, 1923 (Epinotia) 3284
51a1198 E. pulsatillana (Dyar, 1903) (Eucosma) 3285
ssp. a. pulsatillana (Dyar, 1903) (Eucosma)
ssp. b. siskiyouensis Heinrich, 1923 (Epinotia)
51a1199 E. medioviridana (Kearfott, 1908) (Eucosma) 3286
51a1200 E. castaneana (Walsingham, 1895) (Paedisca) 3288
51a1201 E. celtisana (Riley, 1881) (Paedisca) [NEW]
laracana (Kearfott, 1907) (Proteopteryx) [3291]
NOTE: Synonymy by Brown (1987).
navalis (Meyrick, 1912) (Proteopteryx)
51a1202 E. johnsonana (Kearfott, 1907) (Eucosma) 3289
51a1203 E. madderana (Kearfott, 1907) (Eucosma) 3290
51a1204 E. sotipena Brown, [1987] 1986 (Epinotia) [NEW]
51a1205 E. vertumnana (Zeller, 1876) (Paedisca) 3292
51a1206 E. zandana (Kearfott, 1907) (Eucosma) 3294
atristriga Clarke, 1953 (Epinotia) [3293]
peristicta (Meyrick, 1912) (Eucosma)
51a1207 E. xandana (Kearfott, 1907) (Eucosma) 3295
atacta (Meyrick, 1912) (Eucosma)
nothrodes (Meyrick, 1912) (Eucosma)
yandana (Kearfott, 1907) (Eucosma)
51a1208 E. albicapitana (Kearfott, 1907) (Proteopteryx) 3296
51a1209 E. hopkinsana (Kearfott, 1907) (Eucosma) 3297
51a1209.1 E. cupressi Heinrich, 1923 (Epinotia) [NEW]
51a1210 E. subviridis Heinrich, 1929 (Epinotia) 3298
cantora Brown, 1980 (Epinotia) nom. nud.
51a1210.1 E. ephemerana Brown & Brown, 2018 (Epinotia) [NEW]
51a1211 E. fumoviridana Heinrich, 1923 (Epinotia) 3299
51a1212 E. subplicana (Walsingham, 1879) (Paedisca) 3300
basipunctana (Walsingham, 1879) (Paedisca)
51a1213 E. improvisana Heinrich, 1923 (Epinotia) 3301
51a1214 E. rectiplicana (Walsingham, 1879) (Paedisca) 3302
51a1215 E. corylana McDunnough, 1925 (Epinotia) 3303
51a1216 E. solicitana (Walker, 1863) (Grapholita) 3304
packardiana (Clemens, 1864) (Halonota)
tephrinana (Zeller, 1876) (Paedisca)
51a1217 E. hamptonana (Kearfott, 1907) (Eucosma) 3305
51a1218 E. nisella (Clerck, 1759) (Phalaena) H 3306
NOTE: The names *boeberana* and *rubiana* were reported as synonyms of *E. nisella* by Brown (2005), but they are in fact misidentifications (Mutanen et al. 2012).
anana (Schrank, 1802) (Tortrix)
boeberana of authors; (not Fabricius, 1787) (Pyralis) misid.
cuspidana (Haworth, 1811) (Tortrix)
decorana (Hübner, [1818-1819]) (Tortrix)
lepidana (Frölich, 1828) (Tortrix)
nisana (Guenée, 1845) (Grapholitha)
pavonana (Donovan, [1793]) (Phalaena)
rhombifasciana (Haworth, 1811) (Tortrix)
rubiana of authors; (not Haworth, 1811) (Tortrix) misid.
siliceana (Hübner, [1811-1813]) (Tortrix)
stictana (Haworth, 1811) (Tortrix)
51a1219 E. cinereana (Haworth, 1811) (Tortrix) H [NEW]
NOTE: Mutanen et al. (2012) determined that the NA taxon *criddleana* is a junior synonym of *E. cinereana*, resulting in a Holarctic taxon.
criddleana (Kearfott, 1907) (Proteopteryx) [3307]
petrana (Hübner, [1811-1813]) (Tortrix)
51a1220 E. albangulana (Walsingham, 1879) (Paedisca) 3308
51a1221 E. walkerana (Kearfott, 1907) (Eucosma) 3309
51a1222 E. transmissana (Walker, 1863) (Penthina) 3310
51a1223 E. removana McDunnough, 1935 (Epinotia) 3311
51a1224 E. momonana (Kearfott, 1907) (Proteopteryx) 3312
sanifica (Meyrick, 1912) (Proteopteryx)
51a1225 E. terracoctana (Walsingham, 1879) (Paedisca) 3313
51a1226 E. miscana (Kearfott, 1907) (Eulia) 3314
semalea (Meyrick, 1912) (Eucosma)
51a1227 E. silvertoniensis Heinrich, 1923 (Epinotia) 3315
51a1228 E. huroniensis Brown, 1980 (Epinotia) [NEW]
51a1229 E. digitana Heinrich, 1923 (Epinotia) 3317
51a1230 E. nigralbanoidana McDunnough, 1929 (Epinotia) 3318
51a1231 E. nigralbana (Walsingham, 1879) (Paedisca) 3319
51a1232 E. ruidosana Heinrich, 1923 (Epinotia) 3320
51a1233 E. heucherana Heinrich, 1923 (Epinotia) 3321
51a1234 E. sagittana McDunnough, 1925 (Epinotia) 3322
51a1235 E. emarginana (Walsingham, 1879) (Proteopteryx) 3323
anozirana Brown, 1980 (Epinotia) nom. nud.
51a1236 E. cercocarpana (Dyar, 1903) (Eucosma) 3325
acricula Brown, 1980 (Epinotia) nom. nud.
51a1237 E. columbia (Kearfott, 1904) (Proteopteryx) [NEW]
NOTE: Heinrich (1923) synonymized *columbia* with the European *E. crenana*; Richard L. Brown elevated *columbia* to species status in his unpublished Master's thesis (Brown 1980a), and John W. Brown (2005) formalized this change in the world catalog. Historical records of *E. crenana* in NA refer to *E. columbia*.
albidorsana (Kearfott, 1904) (Proteopteryx)
crenana of authors; (not Hübner, [1817]) (Tortrix) misappl. [3324]
mediostriana (Kearfott, 1904) (Proteopteryx)
51a1238 E. bigemina Heinrich, 1923 (Epinotia) 3326
51a1239 E. bicordana Heinrich, 1923 (Epinotia) 3327
51a1240 E. arctostaphylana (Kearfott, 1904) (Cydia) 3328
51a1241 E. keiferana Lange, 1937 (Epinotia) 3329
51a1242 E. infuscana (Walsingham, 1879) (Semasia) 3331
51a1243 E. nonana (Kearfott, 1907) (Eucosma) 3335
carphologa (Meyrick, 1912) (Eucosma)
51a1244 E. normanana Kearfott, 1907 (Epinotia) 3336
51a1245 E. balsameae Freeman, [1965] (Epinotia) 3337
51a1246 E. nanana (Treitschke, 1835) (Coccyx) I 3338
NOTE: Introduced from Europe, first found in MA in 1907 (Heinrich 1923); confirmed with DNA barcode data by Gilligan et al. (2020a).
domonana (Kearfott, 1907) (Eucosma)
efficax (Meyrick, 1912) (Eucosma)
immetallana (Peyerimhoff, 1863) (Ephippiphora)
piceafoliana Kearfott, 1908 (Epinotia)
waltavaarana (Hoffmann, 1893) (Steganoptycha)
51a1247 E. tsugana Freeman, 1967 (Epinotia) 3339
51a1248 E. meritana Heinrich, 1923 (Epinotia) 3340
51a1249 E. aridos Freeman, 1960 (Epinotia) 3341
51a1250 E. lomonana (Kearfott, 1907) (Tortrix) 3342
veneratrix (Meyrick, 1912) (Tortrix)
51a1251 E. purpuriciliana (Walsingham, 1879) (Steganoptycha) 3343
51a1252 E. medioplagata (Walsingham, 1895) (Zeiraphera) H 3344
NOTE: This species is Holarctic based on records from Russia (Sinev 2008).

51a1253 E. cruciana (Linnaeus, 1761) (Phalaena) H 3345
alaskae Heinrich, 1923 (Epinotia)
alticolana (Stephens, 1852) (Pamplusia)
augustana (Hübner, [1811-1813]) (Tortrix)
brunneana (Frölich, 1828) (Tortrix)
cockleana (Kearfott, 1904) (Enarmonia)
direptana (Walker, 1863) (Sciaphila)
excoecana (Herrich-Schäffer, 1851) (Tortrix)
gyllenhahliana (Thunberg & Borgström, 1784) (Tortrix)
lepida Heinrich, 1924 (Epinotia)
vilisana (Walker, 1863) (Sciaphila)
viminana (Guenée, 1845) (Hypermecia)

51a1254 E. plumbolineana Kearfott, 1907 (Epinotia) 3346
russata Heinrich, 1924 (Epinotia)

51a1255 E. septemberana Kearfott, 1907 (Epinotia) 3347

51a1256 E. vagana Heinrich, 1923 (Epinotia) 3348

51a1257 E. seorsa Heinrich, 1924 (Epinotia) 3349
NOTE: Brown (1980a) considered this a Holarctic taxon, but there are no records of this species outside of NA (Gilligan et al. 2020a).

51a1257.1 E. blanchardi Brown, 1980 (Epinotia)
UNAVAIL.; nom. nud. [NEW]
NOTE: This name from the thesis of Richard L. Brown (1980a) has not been "published" according to the ICZN code, so it is unavailable. However, it appears to represent a biological species. It was erroneously listed as a synonym of *E. seorsa* in Pohl et al. (2016) and Pohl & Dombroskie (in Pohl et al. 2018).

51a1258 E. kasloana McDunnough, 1925 (Epinotia) 3350
jojobana Brown, 1980 (Epinotia) nom. nud.

51a1259 E. signiferana Heinrich, 1923 (Epinotia) [NEW]
NOTE: Richard L. Brown (1980a) raised this species from synonymy with *E. biangulana*, and it was treated as a valid species by John W. Brown (2005).
lunatana Brown, 1980 (Epinotia) nom. nud.

51a1260 E. lindana (Fernald, 1892) (Steganoptycha) 3351

51a1261 E. trossulana (Walsingham, 1879) (Grapholitha) 3352

51a1261.1 E. wrighti Brown & Brown, 2018 (Epinotia) [NEW]

51a1262 E. biangulana (Walsingham, 1879) (Steganoptycha) 3353

51a1263 E. salicicolana Kuznetzov, 1968 (Epinotia) H/I [NEW]
NOTE: This species was first reported from NA in BC, by Cannings & Scudder (2007); it is either Holarctic or introduced.

Genus CATASTEGA Clemens, 1861
ID INFO: Brown (1992).

51a1265 C. aceriella Clemens, [1862] (Catastega) 3334
signatana (Clemens, 1864) (Hedya)
subnisana (Zeller, 1876) (Grapholitha)
variana (Clemens, 1864) (Steganoptycha)

51a1266 C. marmoreana (Heinrich, 1923) (Epinotia) 3316

51a1267 C. timidella Clemens, [1862] (Catastega) 3333

51a1268 C. spectra Brown, 1992 (Catastega) [NEW]

51a1269 C. nebula Brown, 1992 (Catastega) [NEW]

51a1270 C. strigatella Brown, 1992 (Catastega) [NEW]

51a1271 C. triangulana Brown, 1992 (Catastega) [NEW]

51a1272 C. adobe Brown, 1992 (Catastega) [NEW]

51a1273 C. plicata Brown, 1992 (Catastega) [NEW]

Tribe GRAPHOLITINI Guenée, 1845

ID INFO: Heinrich (1926).
NOTE: Shortly after the cutoff date for inclusion in the current checklist, a molecular phylogenetic analysis of the Grapholitini was published by Hu et al. (2023) that proposed several generic rearrangements, primarily affecting species in *Grapholita*. It was not possible to incorporate those results here.

Genus GODITHA Heinrich, 1926

51a1274 G. bumeliana Heinrich, 1926 (Goditha) 3400
rumeliana; Heinrich, 1926 (Goditha) missp.

Genus DICHRORAMPHA Guenée, 1845
ID INFO: Heinrich (1926); also Heppner (1981a), Knudson (1986a), Brown (2020).
AMAUROSETIA Stephens, 1835
DICHRORAMPHODES Obraztsov, 1953
DICHRORHAMPHA; Frey, 1880 missp.
DICRORAMPHA; Doubleday, 1850 missp.
LEPIDOPTYCHA; Dyar, 1901 missp.
LIPOPTYCHA Lederer, 1859
LIPOPTYCHODES Obraztsov, 1953
PARALIPOPTYCHA Obraztsov, 1958

51a1274.5 D. acuminatana (Lienig & Zeller, 1846) (Grapholitha)
I [NEW]
NOTE: Introduced from Europe, first found in ME (Roberts & Miller 2003).
graminana Peyerimhoff, 1872 (Dichrorampha)
typhlodes (Meyrick, 1931) (Hemimene)

51a1274.6 D. aeratana (Pierce & Metcalfe, 1915) (Lipoptycha)
I [NEW]
NOTE: Introduced from Europe (Sabourin 2009).

51a1274.7 D. banana (Busck, 1906) (Lipoptycha) 3410
sordescens (Meyrick, 1912) (Lipoptycha)

51a1276 D. bittana (Busck, 1906) (Hemimene) 3406
immaculata McDunnough, 1946 (Dichrorampha) [3405]

51a1276.1 D. broui Knudson, [1987] (Dichrorampha) [NEW]

51a1276.2 D. caribe Brown, 2020 (Dichrorampha) [NEW]

51a1283 D. dana (Kearfott, 1907) (Enarmonia) 3413
aequorea (Meyrick, 1912) (Enarmonia)
bradorensis McDunnough, 1930 (Dichrorampha)

51a1283.1 D. flavidorsana Knaggs, 1867 (Dichrorampha) I [NEW]
NOTE: New NA record. This European species was discovered in QC in 2020 by JFL and confirmed via DNA barcodes and genitalia examination.

51a1283.2 D. flinti Razowski, 2011 (Dichrorampha) [NEW]
NOTE: Originally described from Guatemala; a recent NA record (AZ) was determined by TMG in 2017.

51a1283.3 D. incanana (Clemens, 1860) (Halonota) 3407
nigromaculana (Kearfott, 1907) (Hemimene)

51a1284 D. leopardana (Busck, 1906) (Hemimene) 3414

51a1288 D. manilkara Heppner, 1981 (Dichrorampha) [NEW]

51a1291 D. montanana (Duponchel, 1843) (Ephippiphora)
I [NEW]
NOTE: Introduced from Europe (Pohl & Dombroskie, in: Pohl et al. 2018); confirmed with DNA barcode data by Gilligan et al. (2020a).
alpestrana (Herrich-Schäffer, 1851) (Tortrix)
blasiana (Kennel, 1919) (Hemimene)
herbosana Barrett, 1872 (Dichrorampha)
modestana (Müller-Rutz, 1922) (Hemimene)
olivacea (Müller-Rutz, 1934) (Hemimene)
tanaceti Stainton, 1857 (Dichrorampha)

51a1291.1 D. odorata Brown & Zachariades, 2007 (Dichrorampha)
[NEW]
NOTE: This species was described from Jamaica in 2007 and it was found in FL in 2014; there is no evidence it is introduced.

51a1291.2 D. petiverella (Linnaeus, 1758) (Phalaena) I [NEW]
NOTE: Introduced from Europe (Roberts 1991); confirmed with DNA barcode data by Gilligan et al. (2020a).
albinella (Linnaeus, 1758) (Phalaena)
concinnana (Stephens, 1829) (Pseudotomia)
dorsana (Fabricius, 1775) (Pyralis)
jacquiniana ([Denis & Schiffermüller], 1775) (Tortrix)
montana (Hübner, [1796-1799]) (Tortrix)
slavana Caradja, 1916 (Dichrorampha)
stelliferana (Curtis, 1831) (Carpocapsa)

51a1291.3 D. piperana (Busck, 1900) (Hemimene) 3411

51a1291.4 D. radicicolana Walsingham, 1879 (Dichrorampha) 3409

51a1291.5 D. sapodilla Heppner, 1981 (Dichrorampha) [NEW]

51a1291.6 D. sedatana (Busck, 1906) (Hemimene) H? 3412
NOTE: This species is currently treated as Holarctic (Razowski 2003). However, it has been noted that specimens identified as this species from Europe seem different from those in NA (K. Larsen, pers. comm.); DNA barcode data alone are currently not sufficient to resolve this issue because of possible misidentifications (Gilligan et al. 2020a).
plumbana of authors; (not Scopoli, 1763) (Phalaena) misappl.

51a1291.7 D. simulana (Clemens, 1860) (Halonota) 3404
alpinana of authors; (not Treitschke, 1830) (Grapholitha) misappl.
aurisignana Zeller, 1876 (Dichrorampha)
britana (Busck, 1906) (Hemimene) [3403]
capitana (Busck, 1906) (Hemimene) [3402]
kana (Busck, 1906) (Lipoptycha) [3401]
planiloqua (Meyrick, 1912) (Lipoptycha)

51a1291.8 D. vancouverana McDunnough, 1935 (Dichrorampha)
H 3408
NOTE: The name *politana* was used in NA prior to the description of *D. vancouverana*.
gueneeana Obraztsov, 1953 (Dichrorampha)
politana of authors; (not [Denis & Schiffermüller], 1775) (Tortrix) misappl.

Genus SATRONIA Heinrich, 1926

51a1292 S. tantilla Heinrich, 1926 (Satronia) 3415

Genus RICULA Heinrich, 1926

51a1293 R. maculana (Fernald, 1901) (Lipoptycha) 3416

Genus RICULORAMPHA Rota & Brown, 2009
ID INFO: Rota & Brown (2009).

51a1294 R. ancyloides Rota & Brown, 2009 (Riculorampha) [NEW]

Genus TALPONIA Heinrich, 1926

51a1295 T. plummeriana (Busck, 1906) (Hemimene) 3417

Genus PAMMENE Hübner, 1825
ID INFO: Heinrich (1926); also Knudson (1986a).
EUCELIS Hübner, [1825]
EUCELLS; Caradja, 1916 missp.
HALONOTA Stephens, 1852
HEMENE; Pierce & Metcalfe, 1935 missp.
HEMEROSIA Stephens, 1852
HEMIMENE Hübner, 1825
HEUSIMENE Stephens, 1834
METASPHAEROECA Fernald, 1908
ORCHEMIA Guenée, 1845
PALLA Billberg, 1820
PAMENE; Rebel, 1901 missp.
PAMMENA; Meyrick, 1928 missp.
PHTHOROBLASTIS Lederer, 1859
PSEUDOTOMIA Stephens, 1829
PYRODES Guenée, 1845
SPHAEROECA Meyrick, 1895
TRYCHERIS Guenée, 1845

51a1296 P. ocliferia (Heinrich, 1926) (Hemimene) 3418
51a1297 P. felicitana Heinrich, 1923 (Pammene) 3419
51a1298 P. perstructana (Walker, 1863) (Sciaphila) 3468
signifera (Heinrich, 1926) (Hemimene) *[3420]*
51a1299 P. paula (Heinrich, 1926) (Hemimene) 3421
51a1300 P. bowmanana (McDunnough, 1927) (Hemimene) 3422
51a1301 P. medioalbana Knudson, [1987] 1986 (Pammene) [NEW]

Genus LARISA Miller, 1978
ID INFO: Miller (1978b).

51a1302 L. subsolana Miller, 1978 (Larisa) 3423

Genus ETHELGODA Heinrich, 1926

51a1303 E. texanana (Walsingham, 1879) (Phthoroblastis) 3424

Genus SEREDA Heinrich, 1923

51a1304 S. tautana (Clemens, 1865) (Halonota) 3425
lautana; (Fernald, 1882) (Enarmonia) missp.
perfluana (Zeller, 1876) (Grapholitha)

Genus GRAPHOLITA Treitschke, 1829
ID INFO: Heinrich (1926); also Blanchard & Knudson (1984b), Komai (1999), Harrison et al. (2014).
NOTE: Hu et al. (2023) proposed dividing *Grapholita* into three genera, but it was not possible to incorporate those results here.

Subgenus GRAPHOLITA Treitschke, 1829
EBISMA Walker, 1866
ENDOPISA Guenée, 1845
ENDOPIZA; Clemens, 1860 missp.
EPHIPPIPHORA Duponchel, 1834
EUSPILA Stephens, 1834
GRAPHOLITHA; Treitschke, 1830 emend.
STIGMONOTA Guenée, 1845

51a1309 G. angleseana (Kearfott, 1907) (Enarmonia) 3430
51a1310 G. caeruleana (Walsingham, 1879) (Grapholitha) 3431
eoleuca (Meyrick, 1912) (Enarmonia)
vana (Kearfott, 1907) (Enarmonia)
xanthospora (Meyrick, 1912) (Enarmonia)
zana (Kearfott, 1907) (Enarmonia)
51a1311 G. boulderana McDunnough, 1942 (Grapholita) 3432
51a1312 G. vitrana (Walsingham, 1879) (Grapholitha) 3433
51a1313 G. fana (Kearfott, 1907) (Enarmonia) 3434
oenochroa (Meyrick, 1912) (Enarmonia)
51a1314 G. conversana (Walsingham, 1879) (Grapholitha) 3435
cupida (Meyrick, 1912) (Enarmonia)
wana (Kearfott, 1907) (Enarmonia)
51a1315 G. imitativa (Heinrich, 1926) (Grapholitha) 3436
51a1316 G. lunatana (Walsingham, 1879) (Grapholitha) 3437
51a1317 G. eclipsana (Zeller, 1876) (Grapholitha) 3438
51a1318 G. orbexilana Harrison, 2014 (Grapholita) [NEW]
51a1318.1 G. thermopsidis Eiseman & Austin, 2020 (Grapholita) [NEW]
NOTE: This species, described in Eiseman et al. (2020), is placed after *G. orbexilana* following advice from Kyhl Austin (pers. comm.; 2020).
51a1319 G. interstinctana (Clemens, 1860) (Stigmonota) 3439
distema (Grote, 1873) (Grapholitha)
scitana (Walker, 1863) (Dichrorampha)
51a1320 G. edwardsiana (Kearfott, 1907) (Enarmonia) 3440
51a1321 G. lana (Kearfott, 1907) (Enarmonia) 3441
chrysotypa (Meyrick, 1912) (Enarmonia)
placerana (Kearfott, 1907) (Enarmonia)
vancouverana (Kearfott, 1907) (Enarmonia)
51a1322 G. hieroglyphana Blanchard & Knudson, 1984 (Grapholita) [NEW]
51a1323 G. dyarana (Kearfott, 1907) (Enarmonia) 3442
51a1324 G. tristrigana (Clemens, 1865) (Stigmonota) 3443
saundersana (Kearfott, 1907) (Enarmonia)
51a1325 G. delineana Walker, 1863 (Grapholita) I [NEW]
NOTE: This pest of hemp (*Cannabis* spp.; Cannabinaceae) was introduced from Asia (Miller 1982); it is currently spreading throughout the USA with expanded industrial hemp production (Cranshaw et al. 2019).
apicatana Walker, 1863 (Grapholita)
mundana (Christoph, 1882) (Grapholitha)
quadristriana (Walsingham, 1900) (Laspeyresia)
sinana (Felder & Rogenhofer, 1875) (Grapholitha)
terstrigana (Ragonot, 1894) (Grapholitha)
tetragrammana (Staudinger, 1880) (Grapholitha)
51a1326 G. aureolana (Tengström, 1848) (Grapholitha) H [NEW]
NOTE: Reported as new for NA by Pohl & Dombroskie (in Pohl et al. 2018); confirmed as Holarctic with DNA barcode data by Gilligan et al. (2020a).
phacana (Wocke, 1864) (Grapholitha)

Subgenus ASPILA Stephens, 1834
COPTOLOMA Lederer, 1859
OPADIA Guenée, 1845

51a1326.1 G. molesta (Busck, 1916) (Laspeyresia) I 3426
NOTE: Introduced from Asia, first found in DC in 1913 (Chapman & Leink 1971); confirmed with DNA barcode data by Gilligan et al. (2020a).
51a1326.2 G. libertina (Heinrich, 1926) (Grapholitha) 3427
51a1326.3 G. packardi (Zeller, 1876) (Grapholitha) 3428
pyricolana (Murtfeldt, 1891) (Steganoptycha)
51a1326.4 G. prunivora (Walsh, 1868) (Semasia) 3429

Genus OFATULENA Heinrich, 1926

51a1327 O. duodecemstriata (Walsingham, 1884) (Grapholitha) 3444
51a1328 O. luminosa Heinrich, 1926 (Ofatulena) 3445

Genus CORTICIVORA Clarke, 1951
ID INFO: Brown (1984).

51a1329 C. clarki Clarke, 1951 (Corticivora) 3446
51a1330 C. parva Brown, 1984 (Corticivora) [NEW]
51a1331 C. chica Brown, 1984 (Corticivora) [NEW]

Genus CYDIA Hübner, [1825]
ID INFO: Heinrich (1926); also Heppner (1981b, 2008b, c), Brown & Miller (1983); Miller (1986b), Brown & Jaeger (2014).
ADENONEURA Walsingham, 1907
CARPOCAMPA Harris, 1841
CARPOCAPSA Treitschke, 1829
CERATA Stephens, 1852
COCCYX Treitschke, 1829
COLLICULARIA Obraztsov, 1960
CROBILOPHORA; Obraztsov, 1959 missp.
CROBYLOPHORA Kennel, 1910
DANILEVSKIA Kuznetzov, 1970
DICRANIANA Diakonoff, 1984
ERMINEA Kirby & Spence, 1826
ERMINIA; Obraztsov, 1959 missp.
HEDULIA Heinrich, 1926
KENNELIOLA Paclt, 1951
LASPERESIA; Wu, 1938 missp.
LASPEYRESIA Hübner, 1825
LESPEYRESIA; Gozmány, 1957 missp.
MELISOPUS; Riley, 1882 missp.
MELISSOPUS Riley, 1881

MELLISOPUS; Fernald, 1881 missp.
MELLISSOPUS; Fernald, 1908 missp.
PHANETOPREPA Obraztsov, 1968
PSEUDOTOMOIDES Obraztsov, 1959
SEMASIA Stephens, 1829
STROBILA Sodoffsky, 1837

51a1332 C. coniferana (Saxesen, in: Ratzeburg, 1840) (Tortrix) I 3447
NOTE: Introduced from Europe (Schaffner 1959); confirmed with DNA barcode data by Gilligan et al. (2020a). Populations in western NA (LaGasa & Passoa 2007) appear to be a different species based on DNA barcode data.
ericicolana (Bruand, 1850) (Coccyx)
separatana (Herrich-Schäffer, 1851) (Grapholitha)
51a1333 C. bracteatana (Fernald, 1880) (Grapholitha) 3448
ssp. a. bracteatana (Fernald, 1880) (Grapholitha)
ssp. b. cornutana (Dyar, 1903) (Epinotia)
pallidibasalis (Heinrich, 1920) (Laspeyresia)
51a1335 C. marita Brown, 2014 (Cydia) [NEW]
51a1336 C. timara Brown, 2014 (Cydia) [NEW]
51a1337 C. laricana (Busck, 1916) (Laspeyresia) 3449
51a1337.1 C. nigriargentis Heppner, 2008 (Cydia) [NEW]
51a1338 C. rana (Forbes, 1924) (Laspeyresia) 3450
51a1339 C. inopiosa (Heinrich, 1926) (Laspeyresia) 3452
resinosae (Freeman, 1962) (Laspeyresia) [3451]
51a1340 C. confusana (McDunnough, 1935) (Laspeyresia) 3453
51a1341 C. obnisa (Heinrich, 1926) (Laspeyresia) 3454
51a1342 C. youngana (Kearfott, 1907) (Enarmonia) 3466
NOTE: Synonymized by Brown & Miller (1983), then resurrected by Svensson et al. (2012). The Old World name *strobilella* has been used historically in NA.
strobilella of authors; (not Linnaeus, 1758) (Phalaena) misappl. [3455]
51a1343 C. phyllisi Miller, 1986 (Cydia) [NEW]
phyllisae; Miller, 1990 (Cydia) emend.
51a1344 C. larimana (Walsingham, 1895) (Eucelis) 3456
51a1345 C. garacana (Kearfott, 1907) (Enarmonia) 3457
septicola (Meyrick, 1912) (Enarmonia)
51a1346 C. membrosa (Heinrich, 1926) (Laspeyresia) 3458
51a1347 C. multilineana (Kearfott, 1907) (Enarmonia) 3459
51a1348 C. ingrata (Heinrich, 1926) (Laspeyresia) 3460
51a1349 C. albimaculana (Fernald, 1879) (Grapholitha) 3461
articulatana (Kearfott, 1908) (Enarmonia)
51a1350 C. palmetum (Heinrich, 1928) (Laspeyresia) 3462
51a1351 C. populana (Busck, 1916) (Laspeyresia) 3463
51a1352 C. lacustrina (Miller, 1976) (Laspeyresia) 3464
51a1353 C. flexiloqua (Heinrich, 1926) (Laspeyresia) 3465
51a1354 C. nigricana (Fabricius, 1794) (Pyralis) I 3467
NOTE: Introduced from Europe, first found in eastern Canada in 1893 (Pohl & Dombroskie, in: Pohl et al. 2018); confirmed with DNA barcode data by Gilligan et al. (2020a).
asiatica Kuznetzov, 1968 (Cydia)
dandana (Kearfott, 1907) (Enarmonia)
novimundi (Heinrich, 1920) (Laspeyresia)
pisana (Guenée, 1845) (Endopisa)
proximana (Haworth, 1811) (Tortrix)
ratifera (Meyrick, 1912) (Enarmonia)
rusticella (Clerck, 1759) (Phalaena)
viciana (Guenée, 1845) (Endopisa)
51a1355 C. candana (Forbes, 1923) (Laspeyresia) 3469
51a1356 C. grandicula (Heinrich, 1926) (Laspeyresia) 3470
51a1357 C. caryana (Fitch, 1856) (Ephippiphora) 3471
51a1358 C. fletcherana (Kearfott, 1907) (Enarmonia) 3472
51a1359 C. pseudotsugae (Evans, 1969) (Laspeyresia) 3473
51a1360 C. tana (Kearfott, 1907) (Enarmonia) 3474
cirrhas (Meyrick, 1912) (Enarmonia)
51a1361 C. cupressana Kearfott, 1907 (Cydia) 3475
51a1362 C. prosperana (Kearfott, 1907) (Enarmonia) 3476
51a1363 C. costastrigulana (McDunnough, 1935) (Laspeyresia) 3477
51a1364 C. leucobasis (Busck, 1916) (Laspeyresia) 3478
51a1365 C. gallaesaliciana (Riley, 1881) (Grapholitha) 3479
51a1366 C. lautiuscula (Heinrich, 1926) (Laspeyresia) 3480
51a1367 C. americana (Walsingham, 1879) (Grapholitha) 3481
51a1368 C. fahlbergiana (Thunberg, 1797) (Tortrix) [NEW]
flavicollis Walsingham, 1897 (Cydia) [3482]
NOTE: Synonymy by Brown (2005).
51a1369 C. ninana Riley, 1883 (Cydia) 3483
51a1370 C. colorana Kearfott, 1907 (Cydia) 3484
51a1371 C. erotella (Heinrich, 1923) (Carpocapsa) 3485
51a1372 C. toreuta (Grote, 1873) (Penthina) 3486
51a1373 C. ingens (Heinrich, 1926) (Laspeyresia) 3487
51a1374 C. anaranjada (Miller, 1959) (Laspeyresia) 3488
51a1375 C. piperana Kearfott, 1907 (Cydia) 3489
51a1376 C. montezuma Miller, 1986 (Cydia) [NEW]
51a1377 C. miscitata (Heinrich, 1926) (Laspeyresia) 3490
51a1378 C. latisigna Miller, 1986 (Cydia) [NEW]
51a1379 C. injectiva (Heinrich, 1926) (Hedulia) 3491
51a1380 C. pomonella (Linnaeus, 1758) (Phalaena) extralim. I 3492
NOTE: Introduced from Europe by the 1600s (Chapman & Leink 1971; Belton 1988).
ssp. a. simpsoni Busck, 1903 (Cydia)
51a1381.1E C. saltitans (Westwood, 1858) (Carpocapsa) EXCL.; DOMEST. [NEW]
NOTE: The name for the "Mexican Jumping Bean" moth has traditionally been cited as *C. deshaisiana*; however, *C. saltitans* is the correct name for this taxon, as explained by Gilligan et al. (2020a). It is not known to be naturally present north of Mexico.
deshaisiana (Lucas, 1858) (Carpocapsa) (domest.; excl.) [3493]
51a1382 C. largo Heppner, 1982 (Cydia) [NEW]
51a1383 C. latiferreana (Walsingham, 1879) (Carpocapsa) 3494
aurichalceana (Riley, 1881) (Melissopus)
inquilina Kearfott, 1907 (Cydia)
51a1384 C. cornucopiae (Tengström, 1869) (Grapholitha) H? [NEW]
NOTE: This species was reported from NA (AK) by Ferris et al. (2012); there are no specimens in BOLD from outside of Europe.
generosana (Christoph, 1881) (Grapholitha)
lepidulana (Snellen, 1883) (Grapholitha)

Genus ECDYTOLOPHA Zeller, 1876
ID INFO: Adamski & Brown (2001); also Brown & Timm (2017).
ECDYTOLOPHIA; Fracker, 1915 missp.

51a1387 E. insiticiana Zeller, 1876 (Ecdytolopha) 3497
51a1388 E. mana (Kearfott, 1907) (Olethreutes) 3498
insulicola (Meyrick, 1912) (Olethreutes)
islandana (Kearfott, 1907) (Olethreutes) [3499]
thaliastis (Meyrick, 1912) (Olethreutes)
51a1390 E. occidentana Adamski & Brown, 2001 (Ecdytolopha) [NEW]
51a1390.1 E. coloradana Adamski & Brown, 2001 (Ecdytolopha) [NEW]
51a1390.2 E. nigrita Brown, 2017 (Ecdytolopha) [NEW]

Genus GYMNANDROSOMA Dyar, 1904
ID INFO: Adamski & Brown (2001).
GYNANDROSOMA; Sharp, 1905 missp.

51a1390.5 G. punctidiscanum Dyar, 1904 (Gymnandrosoma) 3495
51a1390.6 G. desotanum Heinrich, 1926 (Gymnandrosoma) 3496

Genus PSEUDOGALLERIA Ragonot, 1884
ID INFO: Adamski & Brown (2001).

51a1391 P. inimicella (Zeller, 1872) (Galleria) 3500

Genus THAUMATOTIBIA Zacher, 1915 (excl.)

51a1392E T. leucotreta (Meyrick, 1913) (Argyroploce) EXCL. [NEW]
NOTE: This species is native to Africa; a single male was found in a pheromone trap in Ventura County, CA in July, 2008 (Gilligan et al. 2011b). After extensive surveys, no other individuals were found, and it is assumed to have been an unestablished introduction.

Genus CONIOSTOLA Diakonoff, 1961

51a1393 C. isabelae Razowski & Landry, 2008 (Coniostola) [NEW]
NOTE: This is a Neotropical taxon recently identified from TX (Razowski & Becker 2013); there is no evidence of an introduction.

Subfamily CHLIDANOTINAE Meyrick, 1906

Tribe CHLIDANOTINI Meyrick, 1906 (excl.)
ID INFO: Brown (1990).

Genus AURATONOTA Razowski, 1987 (excl.)

51a1394E A. dispersa Brown, 1990 (Auratonota) EXCL. [NEW]
NOTE: This is a Neotropical species that was intercepted in FL but is not established (Brown 1990).

Tribe HILAROGRAPHINI Diakonoff, 1977

Genus THAUMATOGRAPHA Walsingham, 1897
ID INFO: Heppner (1983).
HILAROGRAPHA Zeller, 1877
THARMATOGRAPHA; Diakonoff, 1977 missp.

51a1395 T. jonesi (Brower, 1953) (Hilarographa) 3751
51a1396 T. youngiella (Busck, 1922) (Hilarographa) 3752
olympica (Braun, 1923) (Hilarographa)
51a1397 T. regalis (Walsingham, 1881) (Glyphipteryx) 3753

Superfamily COSSOIDEA [Leach, 1815]

38. Family COSSIDAE [Leach, 1815] (carpenterworm moths; goat moths)

by James D. Young

Carpenterworm moths range from small to very large moths, with wingspans ranging from 20 to 236 mm (20 to 100 mm in the Nearctic). The forewings are typically long and narrow with a hindwing that is noticeably shorter than the forewing. In several larger-bodied taxa, the abdomen extends beyond the wings when at rest. The immature stages are wood-borers that can be typically found in stems and branches of living trees. A few species have subterranean habits and feed on the root collar or the roots. A few species are known to be economically important. In the Nearctic region, cossids are most notable for causing structural damage to the trunks and branches of trees, which predisposes them to breakage during high winds and heavy snowfalls.

The family Cossidae contains approximately 1,000 described species throughout the world. However, there is the possibility of a greater number due to cryptic species. Forty-eight species are recorded as present in the Nearctic region. Little taxonomic work has been done with the Nearctic taxa of this group over the last 100 years; the last taxonomic treatment of the group as a whole was by Barnes & McDunnough (1911). Yakovlev and associates (Yakovlev 2015, 2016a, b, 2019; Yakovlev et al. 2015a, b, 2016; Yakovlev & Witt 2016a-c) have published several regional and world catalogs over the past 10 years that have focused mostly on the Old World but a few included Nearctic species. Recent molecular studies by Mutanen et al. (2010) suggest that the subfamily Cossulinae may not belong in Cossidae; however, the authors abstained from making a decision as to whether it belongs to a different family or if it should be elevated to family rank. At best, the results could be interpreted as Cossulinae being unplaced in Cossoidea. For this publication, we have elected to keep Cossulinae a subfamily of Cossidae pending future revision.

Subfamily ZEUZERINAE Boisduval, [1828]

Genus HAMILCARA Barnes & McDunnough, 1910

53a0001 H. atra Barnes & McDunnough, 1910 (Hamilcara) 2698

Genus BRYPOCTIA Schoorl, 1990
ID INFO: Yakovlev et al. (2019).

53a0002 B. ramosa (Schaus, 1892) (Zeuzera) 2697
aeetes (Druce, 1901) (Zeuzera)
NOTE: Synonymized by Dyar & Schaus (in Seitz [1940]), but treated as a valid species by Yakovlev et al. (2019). However, the latter did not formally reinstate it as valid therein.
ramuscula (Dyar, 1906) (Zeuzera)

Genus PSYCHONOCTUA Grote, 1865

53a0003 P. gilensis (Barnes & McDunnough, 1910) (Hamilcara) 2699

Genus "ZEUZERA" Latreille, 1804 PROV. PL.

53a0004 Z. masoni Schaus, 1892 (Zeuzera) REV. COMB. [NEW]
NOTE: Reported from NA (TX) by Blanchard & Knudson (1985c), in the genus *Psychonoctua*. The original combination *Zeuzera masoni* Schaus, 1894 is restored herein to stabilize the nomenclature of this species. Yakovlev et al. (2019) established *Aramos* Schoorl, 1990 as a synonym of *Brypoctia* Schoorl, 1990 and specifically excluded *Aramos masoni* (Schaus, 1894) from *Brypoctia*. A new combination was not proposed and its placement back into *Psychonoctua* was rejected by the authors.

Genus ZEUZERA Latreille, 1804
LATAGIA Hübner, 1820

53a0005 Z. pyrina (Linnaeus, 1761) (Phalaena) I 2700
NOTE: Introduced from Europe (Drooz 1985).
decipiens Kirby, 1892 (Zeuzera)

Genus MORPHEIS Hübner, 1820
ID INFO: Donahue (1980).

53a0006 M. clenchi Donahue, 1980 (Morpheis) [NEW]

Subfamily HYPOPTINAE Neumoegen & Dyar, 1894

Genus HYPOPTA Hübner, 1820

53a0007 H. palmata Barnes & McDunnough, 1910 (Hypopta) 2656

Genus GIVIRA Walker, 1856
ID INFO (partial): Metzler (2017a).
EUGIVIRA Schaus, 1901
LENTAGENA Dyar, 1905

53a0008 G. mucidus (Edwards, 1882) (Cossus) 2660
53a0009 G. arbeloides (Dyar, 1899) (Inguromorpha) 2661
felicoma Dyar, 1913 (Givira)
flavescens (Dognin, 1904) (Eugivira)
rufescens Barnes & McDunnough, 1911 (Givira)
53a0010 G. theodori (Dyar, 1893) (Hypopta) 2662
kunzei Dyar, 1923 (Givira)
53a0011 G. durangona (Schaus, 1901) (Eugivira) 2663
53a0011.1 G. delindae Metzler, 2017 (Givira) [NEW]
53a0012 G. carla Dyar, 1923 (Givira) 2664
53a0013 G. cornelia (Neumoegen & Dyar, 1893) (Hypopta) 2665
caerulea; (Dalla Torre, 1923) (Hypopta) missp.
53a0014 G. lucretia Barnes & McDunnough, 1913 (Givira) 2666
53a0015 G. ethela (Neumoegen & Dyar, 1893) (Hypopta) 2667
53a0016 G. anna (Dyar, 1898) (Hypopta) 2668
53a0017 G. marga Barnes & McDunnough, 1910 (Givira) 2669
53a0018 G. lotta Barnes & McDunnough, 1910 (Givira) 2670
53a0019 G. francesca (Dyar, 1909) (Hypopta) 2671
53a0020 G. minuta Barnes & McDunnough, 1910 (Givira) 2672
53a0021 G. cleopatra Barnes & McDunnough, 1912 (Givira) 2673

Genus INGUROMORPHA Edwards, 1888
INGURIMORPHA; Turner, 1918 missp.
JNGUROMORPHA; Dalla Torre, 1923 missp.
POMERIA Barnes & McDunnough, 1911
RAVIGIA Dyar, 1905

53a0022 I. basalis (Walker, 1856) (Cossus) 2659
slossonae Edwards, 1888 (Inguromorpha)
slossoni Edwards, 1888 (Inguromorpha)
slossonii; Edwards, 1891 (Inguromorpha) missp.

53a0023 I. arcifera (Dyar, 1906) (Ravigia) 2658
gabriel (Dyar, 1913) (Givira)
53a0024 I. itzalana (Strecker, 1900) (Hypopta) 2657

Subfamily COSSINAE [Leach, 1815]

Genus ACOSSUS Dyar, 1905
ID INFO: Barnes & McDunnough (1911).
LAMELLACOSSUS; Daniel, 1956 missp.
LAMELLOCOSSUS Daniel, 1956
LAMELLUCOSSUS; Daniel, 1956 missp.

53a0025 A. centerensis (Lintner, 1877) (Cossus) 2675
53a0026 A. populi (Walker, 1856) (Cossus) 2676
ssp. a. populi (Walker, 1856) (Cossus)
po; (Dalla Torre, 1923) (Cossus) missp.
ssp. b. angrezi (Bailey, 1882) (Cossus)
ssp. c. orc (Strecker, 1893) (Cossus)
generosa Dyar, 1925 (Acossus)
53a0027 A. undosus (Lintner, 1878) (Cossus) 2677
brucei (French, 1890) (Cossus)

Genus PRIONOXYSTUS Grote, 1882
PRIONYXSTUS; Barnes & McDunnough, 1911 missp.
XYSTUS Grote, 1874

53a0028 P. piger (Grote, [1866]) (Xyleutes) 2692
baccharidis Clarke, 1952 (Prionoxystus)
53a0029 P. robiniae (Peck, 1818) (Cossus) 2693
ssp. a. robiniae (Peck, 1818) (Cossus)
crepera (Harris, 1834) (Cossus)
crepera (Packard, 1864) (Xyleutes)
plagiatus (Walker, 1856) (Cossus)
querciperda (Packard, 1864) (Xyleutes)
quercus Ehrmann, 1893 (Prionoxystus)
reticulatus (Lintner, 1878) (Cossus)
robinae; Barnes & McDunnough, 1911 (Prionxystus [sic]) missp.
ssp. b. zabolicus (Strecker, 1898) (Cossus)
ssp. c. mixtus Barnes & Benjamin, 1923 (Prionoxystus)
NOTE: Synonymy of *flavotinctus* and *subnigrus* by Donahue (in Heppner 1995a).
flavotinctus Barnes & Benjamin, 1923 (Prionoxystus)
subnigrus Barnes & Benjamin, 1923 (Prionoxystus)
53a0030 P. macmurtrei (Boisduval, in: Guérin-Méneville, 1829) (Cossus) 2694
querciperda (Fitch, 1859) (Cossus)

Genus FANIA Barnes & McDunnough, 1911

53a0031 F. connectus (Barnes & McDunnough, 1916) (Acossus) 2678
53a0032 F. nanus (Strecker, 1876) (Cossus) 2691

Genus TORONIA Barnes & McDunnough, 1911
NOTE: Treated as distinct from *Miacora* by Schoorl (1990).

53a0033 T. perplexus (Neumoegen & Dyar, 1893) (Trypanus) 2695
53a0034 T. luzena (Barnes, 1905) (Coccus [sic]) 2696

Genus COMADIA Barnes & McDunnough, 1911
ID INFO: Brown (1975).
HETEROCOMA Barnes & McDunnough, 1918

53a0035 C. henrici (Grote, 1882) (Hypopta) 2679
53a0036 C. suaedivora Brown & Allen, 1973 (Comadia) 2680
53a0037 C. dolli Barnes & Benjamin, 1923 (Comadia) 2681
53a0038 C. intrusa Barnes & Benjamin, 1923 (Comadia) 2682
bertholdi of authors; (not Grote, 1880) (Hypopta) misid.
NOTE: Historical misidentification detailed in Brown (1975).
53a0039 C. arenae Brown, [1976] 1975 (Comadia) 2683
53a0040 C. subterminata Barnes & Benjamin, 1923 (Comadia) 2684
fusca Barnes & Benjamin, 1923 (Comadia)
53a0041 C. speratus Brown, [1976] 1975 (Comadia) 2685
53a0042 C. bertholdi (Grote, 1880) (Hypopta) 2686
ssp. a. bertholdi (Grote, 1880) (Hypopta)
edwardi (Neumoegen & Dyar, 1893) (Hypopta)
edwardsi; (Dalla Torre, 1923) (Hypopta) missp.
engelhardti Barnes & Benjamin, 1923 (Comadia)
stabilis Barnes & Benjamin, 1923 (Comadia)
ssp. b. indistincta Brown, [1976] 1975 (Comadia)
ssp. c. polingi Barnes & Benjamin, 1927 (Comadia)
53a0043 C. alleni Brown, [1976] 1975 (Comadia) 2687
53a0044 C. manfredi (Neumoegen, [1884]) (Hypopta) 2688
53a0045 C. redtenbacheri (Hammerschmidt, 1848) (Zeuzera) 2689
agavis (Blasquez, 1870) (Bombyx)
chilodora (Dyar, 1910) (Hypopta)
53a0046 C. albistriga (Barnes & McDunnough, 1918) (Heterocoma) 2690

Subfamily COSSULINAE Hodges, 1983

Genus COSSULA Bailey, 1882
COSTRIA Schaus, 1901
HEMIPECTEN Dyar, 1905
HEMIPECTRONA Schaus, 1921
SCHAUSIANA Strand, 1910

53a0047 C. magnifica (Strecker, 1876) (Cymatophora) 2674
basalis Edwards, 1891 (Cossula)
magnifica Bailey, 1882 (Cossula)
norax (Druce, 1898) (Arbela)

Superfamily SESIOIDEA Boisduval, 1828

39. Family SESIIDAE Boisduval, 1828 (clearwing moths)

by James D. Young & William H. Taft

Clearwing moths are small to medium-sized moths that are mostly wasp mimics, with wingspans ranging from 10 to 70 mm (10 to 50 mm in NA). The body ranges from large and stout to petite and slender. The abdomen of many species are banded with white, yellow, orange, or red. The forewing and sometimes hindwing of some species have extensive areas that lack scales and is the source of their common name. In some species, one or both pairs of wings are completely scaled and can be iridescent blue, green, or red. Adult clearwing moths are diurnal and can often be found visiting flowers and resting on plants. The immature stages are internal borers that are commonly found in roots, trunks, branches, galls, and callouses of trees, or in the stems and roots of herbaceous plants. A few species have been observed boring in fruits and seeds. Some species are considered to be serious pests, primarily of stone fruit trees or woody ornamentals.

Sesiidae consists of about 1,400 named species worldwide; in the Nearctic region, 139 species are recorded, including three species introduced for biocontrol that are considered extirpated. The Nearctic taxa were most recently revised by Eichlin & Duckworth (1988), and a world checklist was published by Pühringer & Kallies (2004) and is maintained online by Pühringer & Kallies (2022). Several new species additions and changes to sesiid taxonomy are expected shortly after publication of the current list.

Subfamily TINTHIINAE Le Cerf, 1917

Tribe TINTHIINI Le Cerf, 1917

Genus SOPHONA Walker, 1856
BOMBOSCELES Meyrick, 1930
FICIVORA Clarke, 1962
MYRMECOSPHECIA Le Cerf, 1917

55a0048 S. greenfieldi Eichlin, 1986 (Sophona) [NEW]
55a0049 S. snellingi Eichlin, 1986 (Sophona) [NEW]

Genus ZENODOXUS Grote & Robinson, 1868

55a0050 Z. canescens Edwards, 1881 (Zenodoxus) 2514
sidae Engelhardt, 1946 (Zenodoxus)
55a0051 Z. heucherae Edwards, 1881 (Zenodoxus) 2515
potentillae Edwards, 1881 (Zenodoxus)
55a0052 Z. maculipes Grote & Robinson, 1868 (Zenodoxus) 2516
55a0053 Z. mexicanus Beutenmüller, 1897 (Zenodoxus) 2517
55a0054 Z. palmii (Neumoegen, 1891) (Larunda) 2518
incanae Engelhardt, 1946 (Zenodoxus)
palmiana (Dalla Torre, 1925) (Paranthrene)
sphaeralceae Engelhardt, 1946 (Zenodoxus)
wissadulae Engelhardt, 1946 (Zenodoxus)
55a0055 Z. rubens Engelhardt, 1946 (Zenodoxus) 2519
bexari Engelhardt, 1946 (Zenodoxus)
55a0056 Z. sidalceae Engelhardt, 1946 (Zenodoxus) 2520

Tribe PENNISETIINI Naumann, 1971

Genus PENNISETIA Dehne, 1850
ANTHRENOPTERA Swinhoe, 1892
LOPHOCNEMA Turner, 1917

55a0057 P. marginatum (Harris, 1839) (Trochilium) 2513
albicoma (Hulst, 1883) (Bembecia)
flavipes (Hulst, 1881) (Sesia)
odyneripennis (Walker, 1856) (Aegeria)
pleciaeformis (Walker, 1856) (Aegeria)
rubi (Riley, 1874) (Aegeria)

Subfamily SESIINAE Boisduval, 1828

Tribe PARANTHRENINI Niculescu, 1964

Genus PARANTHRENE Hübner, [1819]
ID INFO: Eichlin & Duckworth (1988); also Handfield & Handfield (2021a).
FATUA Edwards, 1882
MEMYTHRUS Newman, 1832
SCIAPTERON Staudinger, 1854
SCIAPTERUM; Bartel, 1912 missp.
TARSA Walker, 1856

55a0058 P. asilipennis (Boisduval, in: Guérin-Méneville, [1832]) (Sesia) 2522
bombyciformis (Walker, 1856) (Tarsa)
championi (Druce, 1883) (Sphecia)
denudatum (Harris, 1839) (Trochilium)
vespipenne (Herrich-Schäffer, 1854) (Trochilium)
55a0059 P. simulans (Grote, 1881) (Trochilium) 2527
luggeri (Edwards, 1891) (Trochilium)
palmii (Edwards, 1887) (Fatua)
55a0059.1 P. hilairemontis Handfield & Handfield, 2021 (Paranthrene) [NEW]
55a0060 P. pellucida Greenfield & Karandinos, 1979 (Paranthrene) [NEW]
55a0061 P. robiniae (Edwards, 1880) (Sciapteron) 2526
palescens Engelhardt, 1946 (Paranthrene)
perlucida (Busck, 1915) (Memythrus)
55a0062 P. dollii (Neumoegen, 1894) (Sciapteron) 2523
castaneum (Beutenmüller, 1897) (Sciapteron)
fasciventris Engelhardt, 1946 (Paranthrene)
55a0063 P. tabaniformis (Rottemburg, 1775) (Sphinx) H 2524
ssp. a. tabaniformis (Rottemburg, 1775) (Sphinx)
asiliformis ([Denis & Schiffermüller], 1775) (Sphinx)
crabroniformis (Laspeyres, 1801) (Sesia)
denotata (Edwards, 1882) (Albuna)
oslari Engelhardt, 1946 (Paranthrene)
rhingiaeformis (Hübner, 1790) (Sphinx)
sangaica Bartel, 1912 (Paranthrene)
serratiformis (Freyer, 1842) (Sphinx)
sesia (Gmelin, 1790) (Sphinx)
tricincta (Harris, 1839) (Aegeria)
vespiformis of authors; (not Newman, 1832) (Sphinx) misappl.
55a0064 P. fenestrata Barnes & Lindsey, 1922 (Paranthrene) 2525

Genus VITACEA Engelhardt, 1946

55a0065 V. polistiformis (Harris, 1854) (Aegeria) 2530
huron Engelhardt, 1946 (Vitacea)
seminole (Neumoegen, 1894) (Sciapteron)
55a0066 V. scepsiformis (Edwards, 1881) (Sciapteron) 2531
55a0067 V. admirandus (Edwards, 1882) (Sciapteron) 2528
NOTE: This species was reported from LA by Brou & Lemann (2012), as *V. argentifrons*, but that was deemed a misidentification of *V. admirandus*, based on discussions among WHT, Ed Knudson, and SRN in 2017. Generic placement of this species is questionable; molecular work is currently underway to investigate further (WHT).
argentifrons of authors; (not Walker, [1865]) (Tirista) misid.
55a0068 V. cupressi (Edwards, 1881) (Sciapteron) 2529

Genus ALBUNA Edwards, 1881
HARMONIA Edwards, 1882
PARHARMONIA Beutenmüller, 1894

55a0069 A. pyramidalis (Walker, 1856) (Aegeria) 2533
coloradensis Edwards, 1881 (Albuna)
hylotomiformis (Walker, 1856) (Aegeria)
montana Edwards, 1881 (Albuna)
nomadaepennis (Boisduval, 1869) (Sesia)
rubescens (Hulst, 1881) (Sesia)
tanaceti Edwards, 1881 (Albuna)
torva Edwards, 1881 (Albuna)
vancouverensis Edwards, 1881 (Albuna)
55a0069.1 A. beutenmuelleri Skinner, 1903 (Albuna) [NEW]
NOTE: Raised to species status by Taft & Cognato (2016).
beutenmulleri; Duckworth & Eichlin, 1973 (Albuna) emend.
55a0070 A. fraxini (Edwards, 1881) (Carmenta) 2532
morrisoni (Edwards, 1882) (Harmonia)
vitriosa Engelhardt, 1946 (Albuna)

Genus EUHAGENA Edwards, 1881
GAEA Beutenmüller, 1896
LARUNDA Edwards, 1881

55a0071 E. emphytiformis (Walker, 1856) (Aegeria) 2534
solituda (Edwards, 1881) (Larunda)
55a0072 E. nebraskae Edwards, 1881 (Euhagena) 2535
coloradensis (Beutenmüller, 1893) (Pyrrhotaenia)
intensa Engelhardt, 1946 (Euhagena)
mormoni Engelhardt, 1946 (Euhagena)

Genus TIRISTA Walker, [1865]

55a0072.5 T. praxila Druce, 1896 (Tirista) UNVER. [NEW]
NOTE: This species is provisionally added to the NA fauna, based on reports of specimens in the Southern Lepidopterists' News season summary (Knudson 1999, 2001).

Tribe CISSUVORINI Duckworth & Eichlin, 1977

Genus CISSUVORA Engelhardt, 1946

55a0073 C. ampelopsis Engelhardt, 1946 (Cissuvora) 2521

Tribe SESIINI Boisduval, 1828

Genus SESIA Fabricius, 1775
ID INFO: Eichlin & Duckworth (1988); also Eichlin & Taft (1988).
AEGERIA [Fabricius, in: Illiger], 1807
SPHECIA Hübner, [1819]
TRICHILIA Speyer & Speyer, 1858
TROCHILIUM Scopoli, 1777

55a0074 S. apiformis (Clerck, 1759) (Sphinx) I 2542
NOTE: Introduced from Europe to USA before 1880 (Eichlin & Duckworth 1988).
crabroniformis ([Denis & Schiffermüller], 1775) (Sphinx)
sireciformis (Esper, 1782) (Sphinx)
tenebrioniformis (Esper, 1782) (Sphinx)
55a0075 S. tibiale (Harris, 1839) (Trochilium) 2543
anonyma (Strand, 1925) (Aegeria)
californicum (Neumoegen, 1891) (Trochilium)
dyari (Cockerell, 1908) (Aegeria)
flavitibia (Walker, 1856) (Melittia)
melanoformis (Engelhardt, 1946) (Aegeria)
minimum (Neumoegen, 1891) (Trochilium)
pacificum (Edwards, 1881) (Trochilium)
55a0076 S. spartani Eichlin & Taft, 1988 (Sesia) [NEW]

Tribe OSMINIINI Duckworth & Eichlin, 1977

Genus CALASESIA Beutenmüller, 1899

55a0077 C. coccinea (Beutenmüller, 1898) (Pyrrhotaenia) 2544

Genus OSMINIA Le Cerf, 1917
SIGNAPHORA Engelhardt, 1946

55a0078 O. ruficornis (Edwards, 1881) (Carmenta) 2545
candescens (Edwards, 1882) (Aegeria)
marcia (Druce, 1889) (Tarsopoda)
minuta (Edwards, 1881) (Carmenta)
55a0079 O. donahueorum Duckworth & Eichlin, 1983 (Osminia) [NEW]
55a0080 O. bicornicolis Duckworth & Eichlin, 1983 (Osminia) UNVER. [NEW]
NOTE: A single AZ record is known of this widespread Mexican species (Walsh 2011 www). It was listed by Pohl et al. (2016), but the record has not been verified.

Tribe MELITTIINI Le Cerf, 1917

Genus EICHLINIA Gorbunov, 2020
NOTE: Gorbunov (2020) erected the genus *Eichlinia*, for all Western Hemisphere Melittiini species, which were previously placed in *Melittia* Hübner, [1819].

55a0081 E. cucurbitae (Harris, 1828) (Aegeria) 2536
amoena (Edwards, 1882) (Melittia)
ceto (Westwood, 1848) (Trochilium)
satyriniformis (Hübner, [1831] 1825) (Melittia)
55a0082 E. calabaza (Duckworth & Eichlin, 1973) (Melittia) 2537
55a0083 E. snowii (Edwards, 1882) (Melittia) 2538
55a0084 E. grandis (Strecker, 1881) (Trochilium) 2539
beckeri (Druce, 1892) (Melittia)
hermosa (Engelhardt, 1946) (Melittia)
55a0085 E. gloriosa (Edwards, 1880) (Melittia) 2540
barnesi (Dalla Torre, 1925) (Melittia)
lindseyi (Barnes & Benjamin, 1925) (Melittia)
superba (Barnes & Lindsey, 1922) (Melittia)
55a0086 E. magnifica (Beutenmüller, 1899) (Melittia) 2541

Tribe SYNANTHEDONINI Niculescu, 1964

Genus SYNANTHEDON Hübner, 1819
CANOPIA; Wileman & South, 1918 missp.
CONOPIA Hübner, 1819
PYRRHOTAENIA Grote, 1875
RAMOSIA Engelhardt, 1946
SANNINOIDEA Beutenmüller, 1896
SYLVORA Engelhardt, 1946
SYNATHEDON; Wolfsberger, 1961 missp.
THAMNOSPHECIA Spuler, 1910
TIPULIA Králícek & Povolný, 1977
VESPAMIMA Beutenmüller, 1884

55a0087 S. acerrubri Engelhardt, 1925 (Synanthedon) 2546
55a0088 S. geliformis (Walker, 1856) (Aegeria) 2547
55a0089 S. richardsi (Engelhardt, 1946) (Conopia) 2548
55a0090 S. scitula (Harris, 1839) (Aegeria) 2549
aemula (Edwards, 1883) (Aegeria)
corusca (Edwards, 1881) (Aegeria)
gallivorum (Westwood, 1854) (Trochilium)
hospes (Walsh, 1867) (Trochilium)
55a0091 S. pictipes (Grote & Robinson, 1868) (Aegeria) 2550
inusitata (Edwards, 1881) (Aegeria)
55a0092 S. rhododendri (Beutenmüller, 1909) (Sesia) 2551
55a0093 S. rileyana (Edwards, 1881) (Albuna) 2552
austini (Englehardt, 1946) (Carmenta)
brunneipennis (Edwards, 1881) (Aegeria)
hyperici (Edwards, 1881) (Aegeria)
55a0094 S. tipuliformis (Clerck, 1759) (Sphinx) I 2553
NOTE: Introduced from Europe (Eichlin & Duckworth 1988).
ophioniformis (Hübner, [1813]) (Sphinx)
salmachus (Linnaeus, 1758) (Sphinx)
55a0095 S. acerni (Clemens, 1860) (Trochilium) 2554

acericolum (Germadius, 1874) (Trochilium)
buscki (Engelhardt, 1946) (Sylvora)
tepperi (Edwards, 1881) (Pyrrhotaenia)

55a0096 S. fatifera Hodges, [1963] 1962 (Synanthedon) 2555
55a0097 S. viburni Engelhardt, 1925 (Synanthedon) 2556
55a0098 S. alleri (Engelhardt, 1946) (Thamnosphecia) 2557
55a0099 S. kathyae Duckworth & Eichlin, 1977 (Synanthedon) 2579
55a0100 S. arctica (Beutenmüller, 1900) (Sesia) 2558
55a0101 S. bolteri (Edwards, 1883) (Aegeria) 2559
55a0102 S. canadensis Duckworth & Eichlin, 1973 (Synanthedon) 2560
55a0103 S. culiciformis (Linnaeus, 1758) (Sphinx) H 2561
americana (Beutenmüller, 1896) (Sesia)
biannulata Bartel, 1902 (Synanthedon)
biannulata Dalla Torre & Strand, 1925 (Synanthedon)
flavocingulata (Spuler, 1910) (Trochilium)
lutescens (Mosley, 1896) (Aegeria)
triannulata (Spuler, 1910) (Trochilium)
55a0104 S. dominicki Duckworth & Eichlin, 1973 (Synanthedon) 2562
55a0105 S. fulvipes (Harris, 1839) (Aegeria) 2563
55a0106 S. helenis (Engelhardt, 1946) (Carmenta) 2564
55a0107 S. pyri (Harris, 1830) (Aegeria) 2565
55a0108 S. refulgens (Edwards, 1881) (Aegeria) 2566
marica (Beutenmüller, 1899) (Sesia)
seminole (Beutenmüller, 1899) (Sesia)
55a0109 S. rubrofascia (Edwards, 1881) (Aegeria) 2567
55a0110 S. saxifragae (Edwards, 1881) (Aegeria) 2568
henshawii (Edwards, 1882) (Aegeria)
55a0111 S. sigmoidea (Beutenmüller, 1897) (Sesia) 2569
55a0112 S. albicornis (Edwards, 1881) (Aegeria) 2570
55a0113 S. proxima (Edwards, 1881) (Aegeria) 2572
modesta (Kellicott, 1892) (Albuna)
55a0114 S. decipiens (Edwards, 1881) (Aegeria) 2571
imperfecta (Edwards, 1881) (Aegeria)
nicotianae (Edwards, 1881) (Aegeria)
rubristigma (Kellicott, 1892) (Aegeria)
55a0115 S. sapygaeformis (Walker, 1856) (Aegeria) 2573
floridensis (Grote, 1875) (Pyrrhotaenia)
55a0116 S. arizonensis (Beutenmüller, 1916) (Gaea) 2574
55a0117 S. arkansasensis Duckworth & Eichlin, 1973 (Synanthedon) 2575
55a0118 S. bibionipennis (Boisduval, 1869) (Sesia) 2576
NOTE: Belton (1988) reported this species as being introduced from Europe, but it is a Nearctic species.
aureola (Edwards, 1881) (Aegeria)
hemizoniae (Edwards, 1881) (Aegeria)
impropria (Edwards, 1881) (Aegeria)
lupini (Edwards, 1881) (Aegeria)
madariae (Edwards, 1881) (Aegeria)
neglecta (Edwards, 1881) (Aegeria)
perplexa (Edwards, 1881) (Aegeria)
rutilans (Edwards, 1881) (Albuna)
washingtonia (Edwards, 1881) (Aegeria)
55a0119 S. castaneae (Busck, 1913) (Sesia) 2577
55a0120 S. chrysidipennis (Boisduval, 1869) (Sesia) 2578
tacoma (Beutenmüller, 1898) (Sesia)
wallowa (Engelhardt, 1946) (Ramosia)
55a0121 S. mellinipennis (Boisduval, 1836) (Sesia) 2580
artemisiae (Edwards, 1881) (Albuna)
seneciodes (Edwards, 1881) (Aegeria)
senecioides; (Smith, 1891) (Aegeria) missp.
55a0122 S. polygoni (Edwards, 1881) (Pyrrhotaenia) 2581
achillae (Edwards, 1881) (Pyrrhotaenia)
achillaeae; (Dalla Torre & Strand, 1925) (Pyrrhotaenia) missp.
animosa (Edwards, 1883) (Pyrrhotaenia)
behrensii (Edwards, 1882) (Pyrrhotaenia)
elda (Edwards, 1885) (Pyrrhotaenia)
eremocarpi (Edwards, 1881) (Pyrrhotaenia)
fragariae (Edwards, 1881) (Pyrrhotaenia)
helianthi (Edwards, 1881) (Pyrrhotaenia)
maedii; Eichlin, 1995 (Synanthedon) missp.
meadii (Edwards, 1881) (Pyrrhotaenia)
orthocarpi (Edwards, 1881) (Pyrrhotaenia)
praestans (Edwards, 1882) (Aegeria)
semipraestans (Cockerell, 1908) (Sesia)
55a0123 S. resplendens (Edwards, 1881) (Albuna) 2582
55a0124 S. exitiosa (Say, 1823) (Aegeria) 2583
barnesii (Beutenmüller, [1901] 1900) (Sanninoidea)
edwardsii (Beutenmüller, 1900) (Sanninoidea)
fitchi; (Dalla Torre & Strand, 1925) (Aegeria) missp.
fitchii (Edwards, 1882) (Aegeria)
graefi; (Edwards, 1881) (Sciapteron) missp.
luminosa (Neumoegen, 1894) (Sannina)
opalescens (Edwards, 1881) (Aegeria)
pacifica (Riley, 1891) (Sannina)
pepsidiformis (Hübner, 1831) (Paranthrene)
persica (Thomas, 1824) (Apis)
xiphiaeformis (Boisduval, [1875]) (Sesia)
55a0125 S. novaroensis (Edwards, 1881) (Aegeria) 2584
brunneri (Busck, 1914) (Sesia)
piceae (Dyar, 1904) (Parharmonia)
55a0126 S. pini (Kellicott, 1881) (Aegeria) 2585
55a0127 S. sequoiae (Edwards, 1881) (Bembecia) 2586
pinorum (Behrens, 1889) (Aegeria)
superba (Edwards, 1881) (Bembecia)
55a0128 S. myopaeformis (Borkhausen, 1789) (Sphinx) I [NEW]
NOTE: This European introduction was added to the Nearctic fauna by Marius Aurelian (2007, unpublished); reported by Pohl et al. (2015).
armeniaca Gorbunov, 1991 (Synanthedon)
cruentata (Mann, 1859) (Sesia)
elegans (Lederer, 1861) (Sesia)
graeca (Staudinger, 1870) (Sesia)
luctuosa (Lederer, 1853) (Sesia)
mutillaeformis (Laspeyres, 1801) (Sesia)
typhiaeformis (Borkhausen, 1789) (Sphinx)
zonata (Donovan, 1797) (Sphinx)

Genus PALMIA Beutenmüller, 1896

55a0129 P. praecedens (Edwards, 1883) (Sciapteron) 2587

Genus PODOSESIA Möschler, 1879
GROTEA Möschler, 1876

55a0130 P. syringae (Harris, 1839) (Aegeria) 2589
fraxini (Lugger, 1891) (Trochilium)
longipes (Möschler, 1876) (Grotea)
55a0131 P. aureocincta Purrington & Nielsen, 1977 (Podosesia) 2588

Genus SANNINA Walker, 1856
PHEMONOE Edwards, 1882
SAUNINA Boisduval, 1875
SOSPITA Edwards, 1882

55a0132 S. uroceriformis Walker, 1856 (Sannina) 2590
quinquecaudata (Ridings, 1862) (Aegeria)
uroceripennis Boisduval, 1875 (Sannina)

Genus CARMENTA Edwards, 1881
ID INFO: Eichlin & Duckworth (1988); also Eichlin (1992, 1995), Taft & Cognato (2017).

55a0133 C. albociliata (Engelhardt, 1925) (Synanthedon) 2591
55a0134 C. anthracipennis (Boisduval, [1875]) (Sesia) 2592
morula (Edwards, 1881) (Aegeria)
sanborni Edwards, 1881 (Carmenta)
55a0135 C. apache Engelhardt, 1946 (Carmenta) 2593
55a0136 C. arizonae (Beutenmüller, 1898) (Sesia) 2594
55a0137 C. armasata (Druce, 1892) (Aegeria) 2594.1
55a0138 C. auritincta (Engelhardt, 1925) (Synanthedon) 2595
55a0139 C. bassiformis (Walker, 1856) (Aegeria) 2596
aureopurpura (Edwards, 1880) (Aegeria)
bolli (Edwards, 1881) (Aegeria)
bollii; (Smith, 1891) (Aegeria) missp.
consimilis (Edwards, 1881) (Aegeria)
eupatorii (Edwards, 1881) (Aegeria)
imitata (Edwards, 1881) (Aegeria)
lustrans (Grote, 1880) (Trochilium)
sexfasciata (Edwards, 1881) (Aegeria)
55a0140 C. corni (Edwards, 1881) (Aegeria) 2597
infirma (Edwards, 1881) (Aegeria)
55a0141 C. engelhardti Duckworth & Eichlin, 1973 (Carmenta) 2598
55a0142 C. flaschkai Eichlin, 1993 (Carmenta) [NEW]
55a0143 C. giliae (Edwards, 1881) (Aegeria) 2599

deceptiva (Beutenmüller, 1894) (Aegeria)
vitrina (Neumoegen, 1891) (Albuna)
woodgatei Engelhardt, 1946 (Carmenta)

55a0144 C. hela (Druce, 1889) (Aegeria) [NEW]
NOTE: This species is now recognized within the NA fauna, based on TX records from 1992 and 2000 reported in the 2011 Season Summary of the Lepidopterists' Society (2012). The species was placed in *Carmenta* (rather than *Synanthedon*) by T. Eichlin when he identified the specimens, and we follow that combination herein.

55a0145 C. hipsides (Druce, 1889) (Aegeria) [NEW]
NOTE: Added to the NA fauna based on a record from Brewster County, TX, reported by the 2011 Season Summary of the Lepidopterists' Society (2012).

55a0146 C. ithacae (Beutenmüller, 1897) (Sesia) 2600
koebelei (Edwards, 1881) (Aegeria)

55a0147 C. laurelae Brown, Eichlin & Snow, 1985 (Carmenta) [NEW]

55a0148 C. mariona (Beutenmüller, [1901] 1900) (Sesia) 2601

55a0149 C. mimuli (Edwards, 1881) (Aegeria) 2602
torrancia Engelhardt, 1946 (Carmenta)

55a0150 C. odda Duckworth & Eichlin, 1977 (Carmenta) 2603

55a0151 C. ogalala Engelhardt, 1946 (Carmenta) 2604

55a0152 C. pallene (Druce, 1889) (Aegeria) 2605

55a0153 C. phoradendri Engelhardt, 1946 (Carmenta) 2606

55a0154 C. prosopis (Edwards, 1882) (Aegeria) 2607

55a0155 C. pyralidiformis (Walker, 1856) (Aegeria) 2608
aurantis Engelhardt, 1946 (Carmenta)
nigella (Hulst, 1881) (Sesia)

55a0156 C. querci (Edwards, 1882) (Aegeria) 2609
comes (Heinrich, 1921) (Podosesia)

55a0157 C. rubricincta (Beutenmüller, 1909) (Sesia) 2610

55a0158 C. subaerea (Edwards, 1883) (Pyrrhotaenia) 2611

55a0159 C. suffusata Engelhardt, 1946 (Carmenta) 2612

55a0160 C. tecta (Edwards, 1882) (Aegeria) 2613

55a0161 C. texana (Edwards, 1881) (Pyrrhotaenia) 2614
wittfeldii (Edwards, 1883) (Pyrrhotaenia)

55a0162 C. tildeni Eichlin, 1995 (Carmenta) [NEW]

55a0163 C. verecunda (Edwards, 1881) (Aegeria) 2615
florisantella; (Dalla Torre & Strand, 1925) (Sesia) missp.
florissantella (Cockerell, 1908) (Sesia)
hirsulta; Heppner & Duckworth, 1983 (Carmenta) missp.
hirsuta (Engelhardt, 1946) (Euhagena)
nigra Beutenmüller, 1894 (Carmenta)

55a0164 C. welchelorum Duckworth & Eichlin, 1977 (Carmenta) 2616

55a0165 C. wellerae Duckworth & Eichlin, 1976 (Carmenta) 2617

55a0166 C. wielgusi Eichlin, 1987 (Carmenta) [NEW]

55a0166.1 C. wildishorum Taft & Cognato, 2017 (Carmenta) [NEW]

Genus PENSTEMONIA Engelhardt, 1946

55a0167 P. clarkei Engelhardt, 1946 (Penstemonia) 2618

55a0168 P. dammersi Engelhardt, 1946 (Penstemonia) 2619
brevifolia Engelhardt, 1946 (Penstemonia)

55a0169 P. edwardsii (Beutenmüller, 1894) (Aegeria) 2620
utahensis (Beutenmüller, 1909) (Sesia)

55a0170 P. hennei Engelhardt, 1946 (Penstemonia) 2621

55a0171 P. pappi Eichlin, 1987 (Penstemonia) [NEW]

Genus ALCATHOE Edwards, 1882

55a0172 A. caudata (Harris, 1839) (Aegeria) 2623
annettella Engelhardt, 1946 (Alcathoe)
fulvicornis (Harris, 1839) (Aegeria)
walkeri Neumoegen, 1894 (Alcathoe)

55a0173 A. autumnalis Engelhardt, 1946 (Alcathoe) [NEW]

55a0174 A. carolinensis Engelhardt, 1925 (Alcathoe) 2622

55a0175 A. pepsioides Engelhardt, 1925 (Alcathoe) 2624
atra Engelhardt, 1925 (Alcathoe)
ferrugata Engelhardt, 1946 (Alcathoe)

55a0176 A. verrugo (Druce, 1884) (Sannina) 2625
corvinus Engelhardt, 1946 (Alcathoe)

Genus HYMENOCLEA Engelhardt, 1946

55a0177 H. palmii (Beutenmüller, 1902) (Sesia) 2626

Genus CHAMAESPHECIA Spuler, 1910

55a0178X C. hungarica (Tomala, 1901) (Sesia) EXTIRPATED I [NEW]
NOTE: This species was introduced from Europe into Canada in 1991 and USA in 1993 for biocontrol of Leafy Spurge (*Euphorbia esula* L.; Euphorbiaceae) (Weeden et al. 2002), but the introduction was unsuccessful (Winston et al. 2014).
deltaica Popescu-Gorj & Căpuşe, 1965 (Chamaesphecia)

55a0179 C. tenthrediniformis ([Denis & Schiffermüller], 1775) (Sphinx) I [NEW]
NOTE: This species was introduced from Europe into Canada from 1971 to 1974 and USA in 1975 for biocontrol of Leafy Spurge (*Euphorbia esula* L.; Euphorbiaceae) (Harris 1984). The introduction was deemed unsuccessful (Winston et al. 2014), but an iNaturalist observation in southern ON in 2021 has been identified as this species, and is tentatively accepted herein as evidence that the species has persisted in NA.
taediiformis (Freyer, 1836) (Sesia)

55a0180 C. empiformis (Esper, 1783) (Sphinx) I [NEW]
NOTE: This species was introduced from Europe into the USA in 1970 for biocontrol of Cypress Spurge (*Euphorbia cyparissias* L.; Euphorbiaceae). The success of the introduction was deemed uncertain by Harris (1984). In 2015, a photograph of a specimen from Tweed, ON, was submitted to iNaturalist by Jason King, and was identified by WHT, confirming the survival of those populations. Since then several other iNaturalist records in eastern ON have been confirmed by WHT as well.
bombyciformis (Geoffroy, in: Fourcroy, 1785) (Sphinx)
empinaeformis (Walker, 1856) (Aegeria)
flavoabdominalis Popescu-Gorj, 1955 (Chamaesphecia)
lastuvkai Špatenka, 1987 (Chamaesphecia)

55a0181X C. astatiformis (Herrich-Schäffer, 1846) (Sesia) EXTIRPATED I [NEW]
NOTE: This species was introduced from Europe into Canada in 1993 for biocontrol of Leafy Spurge (*Euphorbia esula* L.; Euphorbiaceae), but the introduction was unsuccessful (Winston et al. 2014).
agathiformis (Walker, 1856) (Aegeria)
tengyraeformis (Herrich-Schäffer, 1846) (Sesia)

55a0182X C. crassicornis Bartel, 1912 (Chamaesphecia) EXTIRPATED I [NEW]
NOTE: This species was introduced from Europe into Canada and USA in 1994 for biocontrol of Leafy Spurge (*Euphorbia esula* L.; Euphorbiaceae), but the introduction was unsuccessful (Winston et al. 2014).

Superfamily ZYGAENOIDEA Latreille, 1809

40. Family EPIPYROPIDAE Dyar, 1903 (planthopper parasite moths)

by Marc Epstein & Emile Fiesler

Adults of epipyropids are very small moths (about 12 mm wingspan in the NA species), often dark in color, with triangulate forewings and much smaller hindwings. The head lacks ocelli, chaetosemata, and a proboscis, whereas both sexes have short bipectinate antennae, which are narrower in the female. No tibial spurs are present. Male genitalia are without an uncus and with short gnathos arms and short valvae. Female genitalia have dense setae and a short bursa copulatrix (Common 1990). Eggs are flat, but not scalelike, and are coated by the female accessory gland (Epstein 1996).

Epipyropid larvae are true parasites of large leafhoppers and cicadas (Homoptera). The caterpillars undergo hypermetamorphosis, radically changing from triungulin first instars with relatively large heads and thoracic legs. Once attached to the host, they become sluglike larvae that cover themselves with waxy secretions. The sluglike instars have crochets in an ellipse with retainer setae that hook onto silk on the host. The scalloped, white cocoons have a broad “frogmouth” opening for the exorate pupae on eclosion (Davis, in: Stehr et al. 1987; Epstein et al. 1999).

Epipyropidae are a cosmopolitan tropical group, most diverse in the Oriental region, with 35 to 40 known species (Epstein et al. 1999), one of which occurs in NA. At present it is unclear as to which superfamily they belong or are most closely allied. They were associated with Dalceridae by Jordan (1928), but Epstein (1996) found no suggestion of synapomorphic characters. Heikkilä et al. (2015) most recently found a connection with Zygaenoidea, based on combined molecular and morphological data, and that placement is followed herein.

Genus FULGORAECIA Newman, 1851
EPIPYROPS Westwood, 1876
OEDONIA Kirby, 1892
PSEUDOPSYCHE Edwards, 1882

57a0001 F. exigua (Edwards, 1882) (Pseudopsyche) 4701
barberiana (Dyar, 1902) (Epipyrops)

41. Family ZYGAENIDAE Latreille, 1809 (burnet moths)

by Marc Epstein & Emile Fiesler

Zygaenids range from very small to very large (10 to 120 mm wingspan), but most are medium-sized. They range from 10 to 30 mm wingspan in NA. Most are brightly colored diurnal moths with elongate wings. Some have mimetic patterns of blue and orange similar to some arctiine moths, various beetles, or wasps. Antennae of Nearctic Procridinae are bipectinate in males and biserrate in females. They have ocelli and chaetosemata on the head, a well-developed proboscis, one or two segmented maxillary palps, and short labial palps. The tibial spur formula of Nearctic Procridinae is 0-2-2. Male genitalia have a narrow uncus, gnathos absent, and rectangular valvae. Female genitalia can have flat membranous disks, signum uncommon, and a large secondary accessory gland. Eggs are non-overlapping groups of raised spheroids.

The larvae of zygaenids are exposed feeders on herbs, shrubs, and trees, often skeletonizing leaves as early instars. They are usually brightly colored and can synthesize hydrogen cyanide as a defense against predators. Host specialization includes plants in the families Vitaceae and Nyctaginaceae. Larvae have retractile heads, small thoracic legs, abdominal prolegs on A3 to A6 and A10, and crochets in a mesoseries. Cocoons have a paperlike texture and are weakly spun on the ground or among leaves (Epstein et al. 1999).

About 1,040 species of zygaenids are known worldwide, with the center of diversity in Asia and the Palaearctic, although the subfamily Procridinae is native to the New World and Australia. A total of 27 species of zygaenids occur in NA. The native Nearctic genera, all in Procridinae, were revised by Tarmann (1984); the species have not been revised in many years. The sole Nearctic Zygaeninae species, *Pryeria sinica*, was introduced from Asia in the early 1990s (Brown et al. 2004b).

Subfamily PROCRIDINAE Boisduval, 1828

Tribe PROCRIDINI Boisduval, 1828

Genus ACOLOITHUS Clemens, 1860

57a0002 A. falsarius Clemens, 1860 (Acoloithus) 4629
sanborni (Packard, 1864) (Harrisina)

57a0003 A. novaricus Barnes & McDunnough, 1913 (Acoloithus) 4628

57a0004 A. rectarius Dyar, 1898 (Acoloithus) 4627

57a0005 A. ruficollis Druce, 1884 (Acoloithus) UNVER. [NEW]
NOTE: Treated as distinct from *A. falsarius* by Tarmann (1984). This species has not been confirmed for NA. (Tarmann 1994).

Genus HARRISINA Packard, 1864
HARRISINULA Hering, 1925

57a0006 H. americana (Guérin-Méneville, 1829) (Aglaope) 4624
australis Stretch, 1885 (Harrisina)
texana Stretch, 1872 (Harrisina)

57a0007 H. coracina (Clemens, 1860) (Aglaope) 4622
mexicana Schaus, 1889 (Harrisina)
nigrina Graef, 1887 (Harrisina)

57a0008 H. metallica Stretch, 1885 (Harrisina) 4623
brillians Barnes & McDunnough, 1910 (Harrisina) *[4621]*
NOTE: Synonymy of *brillians* by Tarmann (1984).
elongata Druce, 1896 (Harrisina)
tessacens Dyar, 1912 (Harrisina)

Genus NEOILLIBERIS Tarmann, 1984

57a0009 N. martenii (French, 1883) (Triprocris) 4634
barnea (Druce, 1891) (Procris)
marteni; (Dyar, 1903) (Triprocris) missp.

57a0010 N. fusca (Edwards, 1884) (Pyromorpha) 4635
landia (Druce, 1891) (Procris)

57a0011 N. kendalli Tarmann, 1984 (Neoilliberis) [NEW]

57a0012 N. arizonica Tarmann, 1984 (Neoilliberis) [NEW]

Genus NEOFELDERIA Tarmann, 1984
ACREAGRIS Felder, 1874
FELDERIA Kirby, 1892

57a0013 N. rata (Edwards, 1882) (Lycomorpha) 4636
NOTE: Erroneously listed by Davis (in Hodges et al. 1983) as #4646 rather than #4636.
xanthogramma (Hering, 1924) (Malthaca)

Genus NEOALBERTIA Tarmann, 1984

57a0014 N. constans (Edwards, 1881) (Lycomorpha) 4626
sancta (Neumoegen & Dyar, 1894) (Triprocris)

Genus NEOPROCRIS Jordan, 1915
NEOPROCTIS; Bryk, 1936 missp.

57a0015 N. aversa (Edwards, 1884) (Triprocris) 4618
huachuca (Dyar, 1905) (Seryda)

57a0016 N. floridana Tarmann, 1984 (Neoprocris) [NEW]

57a0017 N. prunivora Tarmann, 1984 (Neoprocris) [NEW]

Genus PYROMORPHA Herrich-Schäffer, 1854
CAEMENTA; Hampson, 1907 missp.
COEMENTA Druce, 1885
EUCLIMACIA Jordan, 1913
MALTHACA Clemens, 1860
TETRACLONIA Jordan, 1913

Subgenus GINGLA Walker, 1864

57a0018 P. semifulva (Druce, 1896) (Lycomorpha) UNVER. [NEW]
NOTE: Tarmann (1984) confused this species with *Dicladia semifulva* Druce, 1884, and that has been repeated by other authors. The latter is a different species, restricted to Mexico. Records north of Mexico have not been verified and may refer to *P. caelebs*. Tarmann (1984) synonymized *basirei* with *P. semifulva*.
basirei (Druce, 1896) (Lycomorpha) *[4625]*

Subgenus PYROMORPHA Herrich-Schäffer, 1854

57a0019 P. dimidiata Herrich-Schäffer, 1854 (Pyromorpha) 4639
perlucidula (Clemens, 1860) (Malthaca)

57a0020 P. caelebs Blanchard, 1972 (Pyromorpha) 4638

57a0021 P. dyari (Jordan, 1913) (Tetraclonia) 4632
laterculae (Dyar, 1900) (Gingla)

57a0022 P. latercula (Edwards, 1882) (Lycomorpha) 4633
beovava (Dyar, 1918) (Gingla)
erythromelas (Jordan, 1913) (Malthaca)
flavescens (Hering, 1924) (Tetraclonia)

57a0023 P. centralis (Walker, 1854) (Lycomorpha) 4637
notha (Edwards, 1885) (Lycomorpha)

Genus TRIPROCRIS Grote, 1873

57a0024 T. smithsoniana (Clemens, 1860) (Procris) 4631
57a0025 T. yampai Barnes, 1905 (Triprocris) 4630
yampei; Jordan, 1913 (Triprocris) missp.
57a0026 T. cyanea Barnes & McDunnough, 1910 (Triprocris) 4619
57a0027 T. lustrans Beutenmüller, 1894 (Triprocris) 4620

Subfamily ZYGAENINAE Latreille, 1809

Genus PRYERIA Moore, 1877
NEOPRYERIA Matsumura, 1927
REISSITA Tremewan, 1959

57a0028 P. sinica Moore, 1877 (Pryeria) I [NEW]
NOTE: Introduced from Asia; discovered in NA in VA in 2001 (Brown et al. 2004b).
pryeri Jordan, 1907 (Pryeria)

42. Family LACTURIDAE Heppner, 1995 (tropical burnet moths)

by Marc Epstein & Emile Fiesler

Adult lacturids are brightly colored small nocturnal moths, with wingspans of about 20 mm. Antennae in both sexes are filiform. The head lacks ocelli, and chaetosemata are present (Yen et al. 2005). Their mouthparts include a naked proboscis that is well developed, scaled maxillary palps, and labial palps that are three-segmented and upturned. They have elongate forewings with a narrow outer margin and venation with a chorda. Legs have tibial spur formula 0-2-4. Male genitalia have a well developed and narrow uncus, no gnathos, and elongate oval valvae. Female genitalia are longer than broad and with sclerotized rim. The ductus bursae is coiled, and the corpus bursae has a large signum (Matson et al. 2019). The sluglike larvae have tubercles with few dorsal and subdorsal setae, and secondary setae are absent. They make sticky secretions from lateral glands. The broad “frogmouth” cocoon opening helps distinguish them from Zygaenidae (Common 1990; Epstein et al. 1999).

Lacturidae are a subtropical family that had been placed in Plutellidae and Yponomeutidae before it was moved to Zygaenoidea by Common (1990) as a “group” in Zygaenidae. It was given family status by Heppner (1995b). Approximately 140 species are known globally (Matson et al. 2019); there are 6 species in NA.

Genus ENAEMIA Zeller, 1872

ID INFO: Matson et al. (2019).

NOTE: We follow Heppner (2019a) in considering *Enaemia* as the valid genus for New World taxa previously associated with *Lactura* Walker, 1854, contrary to Matson et al. (2019). However, within *Enaemia* we follow the species-level taxonomy of Matson et al. (2019).

EUSTIXIA Butler, 1877
EUSTIXIS Hübner, [1831]
MIEZA Walker, 1854
PSEUDOCAPRIMA Walsingham, 1900

57a0029 E. atrolinea (Barnes & McDunnough, 1913) (Mieza) 2403
57a0030 E. basistriga (Barnes & McDunnough, 1913) (Mieza) 2404
57a0031 E. nalli (Matson & Wagner, 2019) (Lactura) [NEW]
57a0032 E. pupula (Hübner, [1831]) (Eustixis) 2405
crassivenella Zeller, 1872 (Enaemia)
igninix (Walker, 1854) (Mieza)
laeta (Geyer, 1832) (Eustixis)
57a0033 E. rubritegula (Matson & Wagner, 2017) (Lactura) [NEW]
57a0034 E. subfervens (Walker, 1854) (Mieza) 2407
ssp. a. subfervens (Walker, 1854) (Mieza)
psammitis Zeller, 1872 (Enaemia) [2406]
rhodocentra (Meyrick, 1913) (Mieza) [2408]
ssp. b. sapeloensis (Matson & Wagner, 2019) (Lactura)

43. Family MEGALOPYGIDAE Herrich-Schäffer, 1855 (flannel moths)

by Marc Epstein & Emile Fiesler

Adult megalopygids range from very small (wingspans of 9 mm) to among the largest in superfamily Zygaenoidea, particularly the females (wingspans up to 90 mm). The forewings are more triangulate in males than in females. Females are also recognized by the dense pack of hairlike scales on the end of the abdomen that coat their raised ellipsoid eggs, which are laid in clusters. Antennae are bipectinate to the apex in males and filiform in females. Ocelli are absent and chaetosemata are present, and the two-segmented labial palpi are short. Male genitalia have digitate valvae and a short uncus. Female genitalia have a small bursa copulatrix and closely appressed papillae that are surrounded laterally by a dense pack of hair scales that coat the eggs (Epstein 1996).

Caterpillars of this family are often woolly, having plumose setae that arise from the same verrucae as venomous spines that are hidden beneath. Spiracles on all segments have proximal digitate sensilla. All megalopygids are known to have abdominal prolegs on segments A2 to A7, the first and last of these additional to those most often found in Lepidoptera. The extra two pairs of prolegs usually lack crochets; however, examples with the complete compliment of prolegs with crochets have been found in the neotropical genus *Mesoscia* (Epstein 1996). Megalopygid larvae are polyphagous on trees and at times cause defoliation. However, they are best known in NA for causing contact dermatitis.

Megalopygidae is solely a New World family of around 250 species, with 12 species in NA. There are two subfamilies that can be separated by hindwing venation and male genitalia (Hopp 1934): the Megalopyginae (ca. 70 species; seven in NA) and Trosiinae (ca. 180 species; five in NA) (Becker, in: Heppner 1995a). Phylogenetic analyses, however, are needed to determine whether either of these subfamilies are monophyletic. The Neotropical family Aididae and Old World family Somabrachyidae were recently removed from the Megalopygidae (Epstein 1996).

Subfamily MEGALOPYGINAE Herrich-Schäffer, 1855

Genus MEGALOPYGE Hübner, 1820

ALPHIS Walker, 1855
CHRYSOPYGA Herrich-Schäffer, 1855
CYCLARA Schaus, 1896
GASINA Walker, 1855
LAGOA Harris, 1841

NOTE: Becker (in Heppner 1995a) reinstated the synonymy of *Lagoa* with *Megalopyge*.

OCHROSOMA Herrich-Schäffer, 1856
OYLOTHRIX Clemens, 1860
PIMELA Clemens, 1860
PODALIA Walker, 1856
ZEBONDA Walker, 1865

57a0035 M. immaculata (Cassino, 1928) (Lagoa) 4641
57a0036 M. pyxidifera (Smith, 1797) (Phalaena) 4642
57a0037 M. lacyi (Barnes & McDunnough, 1910) (Lagoa) 4643
laceyi; (Barnes & McDunnough, 1917) (Lagoa) missp.
57a0038 M. crispata (Packard, 1864) (Lagoa) 4644
grisea (Barnes & McDunnough, 1910) (Lagoa)
57a0039 M. lapena Schaus, 1896 (Megalopyge) extralim. 4645
ssp. a. heteropuncta Barnes & McDunnough, 1918 (Megalopyge)
57a0040 M. opercularis (Smith, 1797) (Phalaena) 4647
ssp. a. opercularis (Smith, 1797) (Phalaena)
lanuginosa (Clemens, 1860) (Pimela)
ssp. b. bissesa Dyar, 1911 (Megalopyge) [4646]
NOTE: Treated as a subspecies by Becker (in Heppner 1995a).
57a0041 M. albicollis (Walker, 1855) (Gasina) extralim.; UNVER. [NEW]
NOTE: The sole Nearctic specimen of this taxon is probably mislabeled or misidentified (ME unpubl. data).
ssp. a. superba (Edwards, 1884) (Lagoa)

Subfamily TROSIINAE Hopp, 1927

Genus TROSIA Hübner, 1820

ISOCHROMA Felder, 1875
JOSCHROMA Neave, 1939
SAROTHROMA Herrich-Schäffer, [1855]
SCIATHOS Walker, 1855

57a0042 T. obsolescens Dyar, 1899 (Trosia) 4640

Genus NORAPE Walker, 1855

ID INFO: Wagner et al. (2022).

ANARCHYLUS Dyar, 1906
CARAMA Walker, 1855
MALLOTODESMA Wallengren, 1858
SULYCHRA Butler, 1878
ULOSOTA Grote, 1864

57a0043 N. tener (Druce, 1897) (Archylus) [NEW]
NOTE: This species has been misspelled "*tenera*" by many authors including by Davis (in Hodges et al. 1983).
achriogelos (Dyar, 1910) (Ramaca)
tenera; Hopp, 1934 (Norape) missp. *[4648]*
57a0044 N. cretata (Grote, 1864) (Ulosota) [NEW]
NOTE: Revived status by Wagner et al. (2022). Under the current species concepts, *N. ovina* does not occur in NA.
ovina of authors; (not Sepp, [1855]) (Phalaena) misappl. *[4650]*
57a0045 N. sorpresa Wagner & Matson, 2022 (Norape) [NEW]
57a0046 N. virgo (Butler, 1877) (Carama) 4649
albipes Hopp, 1927 (Norape)

44. Family DALCERIDAE Dyar, 1898 (jewel caterpillar moths)

by Marc Epstein & Emile Fiesler

Dalceridae adults are small to medium sized moths (wingspan about 30 to 35 mm in the sole NA species) with broad forewings and small hindwings. The wings of many species are yellow, orange, or white in color, either delicately patterned or unmarked. Like Limacodidae, the head lacks ocelli and chaetosemata. They have short antennae that are more broadly bipectinate in males than females. Labial palpi are two-segmented and raised, and the proboscis and maxillary palpi are vestigial. Legs lack tibial spurs. Male genitalia have a short uncus point and hairy socius beneath, a gnathos with medially fused or separate arms, vestigial valvae, and a narrow and elongate juxta. Female genitalia have disklike and hairy papillae that are deeply cleft, a large secondary accessory gland with external ducts that coat the eggs, and a bursa copulatrix of variable length that is without signa in the corpus bursae (Miller 1994).

The caterpillars of dalcerids are covered with what appear to be gelatinous warts that are slimy and sticky when removed by predators, serving as a defense from ants and perhaps other predators (Epstein et al. 1994). As the caterpillars molt, they retain their dorsal cuticle (Epstein 1997). The ventral surface has suckers modified from prolegs, which gain a tiny group of crochets in the middle instars, and by the final instar, our sole NA species has them on abdominal segments A2 to A7 and absent on A10 (other known dalcerids only have them on A3 to A6). Cocoons of Dalceridae have the most diffuse silk among NA Zyagenoidea. This enables them to wick off and abrade the slimy warts. The prepupa is visible in the center chamber (Epstein 1997; ME personal observation).

Dalceridae are a small, mostly neotropical group of 85 species; one species occurs in the southwestern USA (Miller 1994). Recent research (ME in prep.) indicates that Dalceridae likely arose from within the Limacodidae (see the description of that family for details) and would be better placed as a limacodid subfamily, but we retain it here as a full family pending completion of that work.

Subfamily ACRAGINAE Hampson, 1918

Genus DALCERIDES Neumoegen & Dyar, 1893
ACRAGOPSIS Dyar, 1905

57a0047 D. ingenita (Edwards, 1882) (Artaxa) 4702

45. Family LIMACODIDAE Duponchel, 1845 (slug caterpillar moths)

by Marc Epstein & Emile Fiesler

Adult limacodids are small to medium-sized moths (20 to 30 mm wingspans in NA species), many with stout bodies and broad wings that tend to be more triangulate in males than females. They lack both ocelli and chaetosemata on the head. The antennae are variable. The labial palpi are straight, often projected upwards, and are usually three segmented and variable in length. The proboscis is functional in some taxa, though often vestigial, as are the maxillary palpi (Epstein 1996). Legs have tibial spurs with formulae 0-2-2 or 0-2-4. Male genitalia often have an elongate uncus, a gnathos with fused arms, and rectangular or triangulate valvae that extend at least as far as the uncus. The aedeagus is often bent or curved from base to apex, and there are typically cornuti in the vesica. Female genitalia have disk-shaped papillae anales that press out flat, thin, scalelike eggs. Signa of various shapes and numbers often occur; the bursa copulatrix is variable in length, and its antrum is sclerotized.

The caterpillars of Limacodinae and Chrysopolominae never have larval crochets (Epstein 1996), whereas the African *Pantoctenia* (Epstein 1996) develop and retain crochets after the middle instars, similar to dalcerids (Stehr & McFarland 1985). The spinneret lays down ribbons of semifluid silk that help the caterpillars adhere to foliage. They tend to be polyphagous on various trees and shrubs with smooth and tough leaves. In NA, they are rarely defoliators and occasionally found on corn (e.g., *Acharia stimulea*). They are better known for their stinging nettle caterpillars which cause contact dermatitis in humans. Cocoons of Limacodinae and Chrysopolominae are hard and oval with lids that tend to fall off after adults emerge. This gives them a cuplike appearance, hence the name “cup moth” in Australia. The hardness is from calcium oxalate excreted from the Malpighian tubules during cocoon construction (Epstein 1996). Cocoons can be made on stems, between leaves, on tree trunks, or near the surface of the ground.

Limacodidae presently consists of two subfamilies, Limacodinae and Chrysopolominae (Epstein 1996). However, a small group of African genera including *Pantoctenia* and dalcerids were previously found to be basal to Limacodinae. Epstein (1996) and Zaspel et al. (2015) suggested that *Pantoctenia* + *Dalcerides* (Dalceridae), or either one or the other, are sister to the remaining Limacodinae. However, only Zaspel et al. (2015) included Chrysopolominae in the phylogenetic analysis and found them to be within the Limacodinae. Current research suggests that Dalceridae will be a subfamily subsumed into Limacodidae with another new subfamily that includes *Pantoctenia* and other genera at the base (Epstein et al. in prep.). The NA genera of Limacodidae are divided into groups based on features of the dorsal surface of mid- to late instars: those with spiny scoli (nettles) or those that are smooth (gelatines); a third group with hairy tubercles (monkey slugs) are derived from within the gelatines. Their underbellies are much more similar: they have prolegs modified into sucker disks on the same segments as those found in Megalopygidae (A2 to A7).

The primarily tropical family Limacodidae has a fauna of approximately 1,800 described species worldwide (Giusti et al. in prep). There are 48 species in 21 genera known from NA. The family has not been revised in many years and although the NA species are reasonably well-known, there can be difficulty in separating species in several genera due to what appears to be past or current hybridization among a number of species, particularly those in *Tortricidia*, *Euclea*, and *Adoneta*. Other future challenges relevant to NA will be to differentiate closely related taxa in Mexico and Central America in genera including *Natada* and *Isochaetes*.

Subfamily LIMACODINAE Duponchel, 1845

GELATINES [informal tribal-level group]

APODA GROUP OF GENERA Epstein, 1996

Genus APODA Haworth, 1809

CHELONE R. L., 1817
COCHLIDIAS Hübner, 1825
COCHLIDION Hübner, 1806
COCHLIDIUM Hübner, 1822
LIMACODES Berthold, in: Latreille, 1827
MANLIA Oken, 1815

57a0048 A. biguttata (Packard, 1864) (Limacodes) 4669
tetraspilaris (Walker, 1864) (Limacodes)

57a0049 A. y-inversa (Packard, 1864) (Limacodes) 4667
parallela (Edwards, 1886) (Limacodes)

57a0050 A. rectilinea (Grote & Robinson, 1868) (Lithacodes) 4668

57a0051 A. latomia (Harvey, 1877) (Limacodes) [NEW]
maxima Dyar, 1927 (Apoda) *[4666]*
NOTE: Epstein & Adams (in Powell & Opler 2009) treat *maxima* as a synonym of *A. latomia*.

Genus HETEROGENEA Knoch, 1783

ID INFO: Profant et al. (2010).

HETEROGYNEA; Meissner, 1905 missp.
KRONAEA Reakirt, 1864
NOTE: *Kronaea* was synonymized with *Heterogenea* by Dyar (in Seitz [1935]). This was apparently missed by Davis (in Hodges et al. 1983).

57a0052 H. shurtleffi Packard, 1864 (Heterogenea) 4657
shurtleffii; Dyar, 1898 (Heterogenea) missp.

57a0053 H. minuta (Reakirt, 1864) (Kronaea) 4656
NOTE: The type, reared from caterpillars from Philadelphia, PA, ended up in F. H. Strecker’s collection where it has been presumed lost for over a century. Dyar (in Seitz [1935]) wrote that it had been accidentally discarded by Strecker, after repeated requests to Strecker that never yielded the specimen or illustration. The illustration in Seitz was made based on Reakirt’s description. See Epstein (2016, pp. 65, 254).

Genus LITHACODES Packard, 1864
LITHACODIA; Packard, 1887 missp.

57a0054 L. fasciola (Herrich-Schäffer, 1854) (Limacodes) 4665
ssp. a. fasciola (Herrich-Schäffer, 1854) (Limacodes)
divergens (Walker, 1862) (Miresa)
laticlavia (Clemens, 1860) (Limacodes)
ssp. b. belfragei Dyar, 1925 (Lithacodes)
57a0055 L. fiskeanus (Dyar, 1900) (Tortricidia) 4663
57a0056 L. gracea Dyar, 1921 (Lithacodes) 4664
57a0057 L. graefii Packard, 1887 (Lithacodia) 4662
graefi; McDunnough, 1939 (Lithacodes) missp.

Genus PACKARDIA Grote & Robinson, 1867
CYRTOSIA Packard, 1864

57a0058 P. geminata (Packard, 1864) (Cyrtosia) 4659
NOTE: The taxa *albipunctata* and *ocellata* are hereby synonymized with *P. geminata*. Neither *ocellata* nor *albipuncta* can be separated geographically or by genitalia from *P. geminata*. Furthermore, the different patterns or ground colors assigned to each blend together and no larval differences are known. The taxon *ocellata* was previously treated as a synonym of *albipunctata* by Dyar (in Seitz [1935]), but as a subspecies of *P. geminata* by Davis (in Hodges et al. 1983).
albipunctata (Packard, 1864) (Cyrtosia) N. SYN. [4658]
goodelli; McDunnough, 1939 (Packardia) missp.
goodellii Grote, 1880 (Packardia)
ocellata (Grote, 1865) (Cyrtosia) N. SYN.
57a0059 P. ceanothi Dyar, 1908 (Packardia) 4660
57a0060 P. elegans (Packard, 1864) (Cyrtosia) 4661
ssp. a. elegans (Packard, 1864) (Cyrtosia)
nigripunctata Goodell, 1881 (Packardia)
ssp. b. fusca (Packard, 1864) (Cyrtosia)

Genus SLOSSONELLA Dyar, 1904

57a0061 S. tenebrosa Dyar, 1904 (Slossonella) 4655

Genus TORTRICIDIA Packard, 1864

57a0062 T. pallida of authors; (not Herrich-Schäffer, 1854) (Limacodes) MISAPPL. 4653
NOTE: There is uncertainty about the separation of *T. pallida* and *T. testacea*, as well as uncertainty about the application of the names as they were described. It was suggested by Profant et al. (2010) that *T. flexuosa* is a synonym of *T. pallida*, but here we retain *T. flexuosa* as a separate species pending further research. The synonymy in Profant et al. (2010) was based on personal communication with ME, who via his curation of the NMNH collection showed specimens traditionally placed under each name blended together phenotypically and the genitalia could not be separated. Later ME (unpublished) found that DNA data, when compared with wing patterns, do not clearly differentiate the two taxa. That there are two taxa rather than one is suggested by Dyar (1896,1898), Wagner (2005) and Passoa (in Marquis et al. 2019), given there are two very different larval phenotypes, one tending to produce *T. flexuosa* of authors and the other *T. pallida* of authors. The original description of *T. pallida* by Herrich-Schäffer was only an illustration, one that matches what has been considered to be *T. flexuosa* by authors since. By priority, this would make the more marked phenotypes to be "true" *T. pallida* rather than those with little or no markings: the *T. pallida* of authors that followed. *Tortricidia pallida* of authors would be another taxon, perhaps *T. flavula*, which matches the less marked phenotype but is a darker, more vivid orange-brown. Pending further research, for expediency we treat the species as they have most recently been known, and append "of authors" to both names to reflect the uncertainty in application of the names as they were described.
flavula (Herrich-Schäffer, 1854) (Limacodes)
57a0063 T. flexuosa of authors; (not Grote, 1880) (Limacodes) MISAPPL. 4654
NOTE: See note under *T. pallida* of authors.
caesonia (Grote, 1880) (Limacodes)
57a0064 T. testacea Packard, 1864 (Tortricidia) 4652
crypta Dyar, 1902 (Tortricidia) N. SYN.
NOTE: The taxon *crypta*, described from CO, was previously considered a subspecies of *T. testacea*, but there is no significant geographical variation in *T. testacea* across NA, and thus no justification in differentiating CO populations (n. syn.).

PROLIMACODES GROUP OF GENERA Epstein, 1996

Genus PROLIMACODES Schaus, 1896

57a0065 P. badia (Hübner, [1822]) (Noctua) 4671
apsorrhoa Dyar, 1925 (Prolimacodes)
argentimacula Barnes & McDunnough, 1913 (Prolimacodes)
scapha (Harris, 1841) (Limacodes)
scaphoides Hering & Hopp, 1927 (Prolimacodes)
57a0066 P. trigona (Edwards, 1882) (Limacodes) 4670
dividua Dyar, 1907 (Prolimacodes)
filifera Dyar, 1925 (Prolimacodes)
telligii (Barnes, 1900) (Eulimacodes)

PHOBETRON GROUP OF GENERA Epstein, 1996

Genus ALARODIA Möschler, 1886
CALYBIA Kirby, 1892
EUPOEYA Packard, 1893
PHRYNE Grote, 1865

57a0067 A. slossoniae (Packard, 1893) (Eupoeya) 4673

Genus CRYPTOPHOBETRON Dyar, 1905
NOTE: Added to the *Phobetron* group of genera herein based on molecular data (ME, unpublished data).

57a0068 C. oropeso (Barnes, 1905) (Limacodes) 4674

Genus ISOCHAETES Dyar, 1899
ID INFO: Profant et al. (2010).

57a0069 I. beutenmuelleri (Edwards, 1887) (Limacodes) 4675

Genus PHOBETRON Hübner, 1825
ECNOMIDEA Westwood, 1841
EURYDA Herrich-Schäffer, 1854
NEMETA Walker, 1855
SPIROCERA Herrich-Schäffer, 1855

57a0070 P. dyari Barnes & Benjamin, 1926 (Phobetron) 4676
57a0071 P. pithecium (Smith, 1797) (Phalaena) 4677
abbotana Hübner, 1825 (Phobetron)
hyalinus Walsh, 1864 (Phobetron)
nigricans Packard, 1864 (Phobetrum [sic])
nondescriptus Wetherby, 1875 (Phobetron)
tetradactylus (Walsh, 1864) (Limacodes)

PEROLA GROUP OF GENERA Epstein, 1996

Genus PALEOPHOBETRON Dyar, 1898
PALAEOPHOBETRON; Dyar, 1937 missp.
NOTE: We follow Forbes' (1942) placement of *perornata* in *Paleophobetron*, which was missed by Davis (in Hodges et al. 1983) where it was placed in *Epiperola* Dyar, 1898. Forbes (1942) also followed Dyar's misspelling of *Paleophobetron* as "*Palaeophobetron*".

57a0072 P. perornata (Dyar, 1905) (Epiperola) 4651

Genus PEROLA Walker, 1855
AMYDONA Walker, 1855
CAMILA Walker, 1855
CANDYBA Walker, 1856
PSEUDASBOLIA Kirby, 1892
ROMOSA Walker, 1855

57a0073 P. clara Dyar, 1907 (Perola) [NEW]
NOTE: Added to the NA fauna based on AZ specimens first reported by Epstein & Adams (in Powell & Opler 2009).

NETTLES [informal tribal-level group]

VIPSANIA GROUP OF GENERA Epstein, 1996

NOTE: This group is provisionally expanded herein to include *Scopelodes* and *Monema*, although ongoing phylogenetic work may refute this arrangement.

Genus MONEMA Walker, 1855
CNIDOCAMPA Dyar, 1905
NOTE: Fletcher & Nye (1982) determined that *Cnidocampa* was an unnecessary replacement name given that *Monema* Greville, 1826 is a genus of plants.

57a0074 M. flavescens Walker, 1855 (Monema) I 4672
NOTE: Introduced from Europe (Drooz 1985).

NATADA GROUP OF GENERA Epstein, 1996

Genus NATADA Walker, 1855
BOMBYCOCERA Felder & Felder, 1874
MAREDA Walker, 1855
RHINAXIME; Davis, in: Hodges et al., 1983 missp.
RHINAXINA Berg, 1882
VIPSOROLA Dyar, 1920

57a0075 N. lacipea (Druce, 1890) (Perola) [NEW]
NOTE: Addition to the NA fauna, added by Ferguson (1986). Moved from *Euprosterna* Dyar, 1905 by Epstein & Becker (1993).

57a0076 N. nigripuncta Barnes & McDunnough, 1910 (Natada) STRAY 4678
NOTE: The type specimen, from Prescott, AZ, is the sole NA record, suggesting that this otherwise Central American species is a stray in NA, or the type may be mislabeled.

57a0077 N. nasoni (Grote, 1876) (Sisyrosea) 4679
rude (Edwards, 1882) (Limacodes)

57a0078 N. ceres (Druce, 1887) (Perola) STRAY [NEW]
NOTE: One old specimen (1916) from Kitt Peak in the Baboquivari Mountains of AZ was recently found and reported by Epstein & Adams (in Powell & Opler 2009). It is likely a stray in NA given there have not been any other reports since.

Genus ISA Packard, 1864
SISYROSEA Grote, 1876
SOCIOSA Kirby, 1892

57a0079 I. schaefferana (Dyar, 1905) (Sisyrosea) 4680

57a0080 I. textula (Herrich-Schäffer, 1854) (Limacodes) 4681
inornata (Grote & Robinson, 1867) (Limacodes)
texula; Packard, 1854 (Isa) missp.

PARASA GROUP OF GENERA Epstein, 1996

Genus ACHARIA Hübner, 1819
EMPRETIA Clemens, 1860
EPISIBINE Dyar, 1898
EUPALIA Walker, 1866
SIBINE Herrich-Schäffer, 1855
STREBLOTA Berg, 1882

57a0081 A. stimulea (Clemens, 1860) (Empretia) 4700
ephippiatus (Harris, 1869) (Limacodes)

57a0082 A. extensa (Schaus, 1896) (Sibine) UNVER. 4700.1
NOTE: Historical specimens from Chokoloskee in the Florida Keys are in the USNM, but there is uncertainty about their provenance (other material bearing the Chokoloskee label has been suspected to be mislabeled from Mexico) so the species is deemed unverified herein.

Genus ADONETA Clemens, 1860
CYCLOPYERYX Packard, 1864

57a0083 A. gemina Dyar, 1906 (Adoneta) 4682

57a0084 A. pygmaea Grote & Robinson, 1868 (Adoneta) 4683

57a0085 A. bicaudata Dyar, 1904 (Adoneta) 4684

57a0086 A. spinuloides (Herrich-Schäffer, 1854) (Limacodes) 4685
ssp. a. spinuloides (Herrich-Schäffer, 1854) (Limacodes)
ssp. b. leucosigma (Packard, 1865) (Cyclopteryx)

Genus EUCLEA Hübner, 1819
METRAGA Walker, 1855
NOCHELIA Clemens, 1860

57a0087 E. obliqua (Edwards, 1886) (Monoleuca) 4690
NOTE: Listed in both *Euclea* and *Monoleuca* by Poole & Gentili (1996). It was placed in *Euclea*, with synonyms *dolliana* and *flava*, by Epstein & Becker (1993).
dolliana Dyar, 1905 (Euclea) *[4694]*
flava Barnes & McDunnough, 1910 (Euclea) *[4695]*
spadicis (Grossbeck, 1906) (Monoleuca)

57a0088 E. incisa (Harvey, 1876) (Parasa) 4696
mira Dyar, 1905 (Euclea)

57a0089 E. delphinii (Boisduval, 1832) (Limacodes) 4697
argentata (Wetherby, 1875) (Limacodes)
bifida Packard, 1864 (Euclea)
elliotti Pearsall, 1887 (Euclea)
elliottii; Dyar, 1937 (Euclea) missp.
excisa (Walker, 1865) (Parasa)
ferruginea Packard, 1864 (Euclea)
interjecta Dyar, 1891 (Euclea)
monitor Packard, 1864 (Euclea)
paenulata (Clemens, 1860) (Empretia)
querceti (Herrich-Schäffer, 1854) (Limacodes)
quercicola (Herrich-Schäffer, 1854) (Limacodes)
strigata (Guérin-Méneville, 1832) (Limacodes)
tardigrada (Clemens, 1860) (Nochelia)
varia (Walker, 1855) (Nyssia)
viridiclava Walker, 1855 (Euclea)

57a0090 E. nanina Dyar, 1899 (Euclea) 4697.1
nana Dyar, 1891 (Euclea)

Genus MONOLEUCA Grote & Robinson, 1869

57a0091 M. occidentalis Barnes & McDunnough, 1912 (Monoleuca) 4688
NOTE: Synonymy of *disconcolorata* and *fieldi* by Epstein & Becker (1993).
disconcolorata Barnes & Benjamin, 1925 (Monoleuca) *[4686]*
fieldi Barnes & Benjamin, 1925 (Monoleuca) *[4687]*

57a0092 M. semifascia (Walker, 1855) (Limacodes) 4691
NOTE: The taxa *angustilinea*, *erectifascia*, *subdentosa*, and *sulfurea* are all FL taxa that cannot be separated geographically — the width of the FW fascia appears to be randomly distributed — or by genitalia from typical *M. semifascia*. They are hereby synonymized.
angustilinea Dyar, 1927 (Monoleuca) N. SYN. *[4692]*
erectifascia Dyar, 1925 (Monoleuca) N. SYN. *[4689]*
subdentosa Dyar, 1891 (Monoleuca) N. SYN. *[4693]*
sulfurea Grote, 1880 (Monoleuca) N. SYN.

Genus PARASA Moore, 1858
CALLOCHLORA Packard, 1864
NEAERA Herrich-Schäffer, 1854
NEAERASA Staudinger, 1892
PACASA; Wichgraf, 1908 missp.

57a0093 P. chloris (Herrich-Schäffer, 1854) (Neaera) 4698
ssp. a. chloris (Herrich-Schäffer, 1854) (Neaera)
ssp. b. huachuca Dyar, 1905 (Parasa)

57a0094 P. indetermina (Boisduval, 1832) (Limacodes) 4699
vernata (Packard, 1864) (Callochlora)

57a0095 P. minima Schaus, 1892 (Parasa) [NEW]
NOTE: This species is hereby added to the NA fauna based on specimens in east TX, LA, and MS in collections and on iNaturalist. These specimens have been tentatively determined as *P. minima* as they cannot be separated from *P. minima* in Mexico and Central America: smaller in size and forewing with relatively narrow green band. Color in areas to base and beyond the green band gray rather than brown. This is likely the "new species" of *Parasa* suspected to occur in LA by Vernon Brou (pers. comm.). Further research on the relationships among *Parasa* species in NA is warranted.

clade OBTECTOMERA Minet, 1986 (all groups following)

Superfamily GELECHIOIDEA Stainton, 1854

DEPRESSARIID ASSEMBLAGE OF FAMILIES Wang & Li, 2020

46. Family EPIMARPTIDAE Meyrick, 1914

by Lauri Kaila & Jean-François Landry

Epimarptids are very small moths (wingspan of about 12 mm in the sole NA species) with narrow hindwings and notched basalmost flagellomeres of the antennae. This family consists of the genera *Epimarptis* and *Idioglossa*; the latter is placed here following Wang & Li (2020). *Idioglossa* are characterized by transverse fasciae on hindwings, a conspicuous scale tuft on the basal part of the proboscis, and long needlelike spurs on the hind tibia.

Epimarptidae were associated with Lecithoceridae by Sohn et al. (2016), and had previously been placed in the Oecophoridae (Hodges, in: Hodges et al. 1983) or Stathmopodidae (Pohl et al. 2016), but were not listed among stathmopodids in the world catalog by Sinev (2015). Twelve species of epimarptids are known worldwide; one species occurs in NA.

Genus IDIOGLOSSA Walsingham, 1881
METAMORPHA Frey & Boll, 1878

59a0000.5 I. miraculosa (Frey, 1878) (Metamorpha) 1072
americella (Walsingham, 1882) (Idiostoma)

47. Family LECITHOCERIDAE Le Marchand, 1947

by Gregory R. Pohl & Jean-François Landry

This group is made up primarily of small moths (wingspans of 10 to 20 mm in NA species) with broad wings and long antennae. As defined by Hodges (1999a), the group is united primarily by characters of the male genitalia and includes taxa that have been difficult to place decisively at the family level. The larvae have secondary setae and feed on detritus.

Recently, Heikkilä et al. (2014) tentatively placed *Martyringa* as a basal group in the Lecithoceridae based on morphological and genetic data. That genus had been treated by Hodges (1974) in the Oecophoridae. The subfamily Oditinae is excluded from Lecithoceridae, following Heikkilä et al. (2014) and Sohn et al. (2016).

About 1,200 species of lecithocerids are known worldwide. The group is most diverse in the southern Palaearctic, Asia, Africa, and Australia. Two species are known in the Nearctic region.

MARTYRINGA GROUP [informal subfamily-level group] Heikkilä et al., 2014

Genus MARTYRINGA Busck, 1902

ID INFO: Hodges (1974).

ANCHONOMA Meyrick, 1910
SANTUZZA Heinrich, 1920

59a0000.6 M. latipennis (Walsingham, 1882) (Oegoconia) 1065

59a0000.7 M. xeraula (Meyrick, 1910) (Anchonoma) C/I [NEW]

NOTE: It is likely that this otherwise southeast Asian pest of stored products was introduced into NA. Saito (1987) synonymized *ravicapitis*; it had been separated from *M. xeraula* on the basis of wing venation, which proved to be variable. That synonymy had been overlooked in recent NA checklists. It is provisionally accepted herein, but morphological and genetic variation indicates that more than one species may be present within that concept of the species, and further work is warranted (JDY, pers. comm.).



kuwani (Heinrich, 1920) (Santuzza)
ravicapitis Hodges, 1960 (Martyringa) *[1066]*

48. Family AUTOSTICHIDAE Le Marchand, 1947

by Gregory R. Pohl & Jean-François Landry

Autostichids are very small moths (wingspans of 10 to 20 mm) with relatively broad wings. The adults superficially resemble oecophorids or gelechiids and are not easily distinguished from other gelechioid families. Larvae of species in this family are poorly known, but many feed on dead or decaying plant or animal tissue (Hodges (1999a).

As currently defined (Heikkilä et al. 2014), the Autostichidae comprise a diverse group of several subfamilies that had previously been placed in their own families (Glyphidocerinae, Deocloninae) or in the Elachistidae, Oecophoridae, and Blastobasidae. Autostichids are poorly known and the literature is scattered. Lee & Brown (2010) reviewed the Symmocinae but did not include the genera *Gerdana* and *Taygete*. *Gerdana* was included in Symmocinae by Brown et al. (2004a) and its omission by Lee & Brown (2010) appears to be an oversight. *Taygete* was transferred from Gelechiidae to Symmocinae by Landry (2002), a placement later confirmed by Schmitz et al. (2007). New Nearctic species of *Glyphidocera* have been described in recent years by Adamski & Brown (1987), Adamski (2000a), and Adamski & Metzler (2000). Approximately 750 species of autostichids are known worldwide; 24 are known from the Nearctic region.

Subfamily AUTOSTICHINAE Le Marchand, 1947

Genus AUTOSTICHA Meyrick, 1886
ID INFO: Hayden & Dickel (2015).
AUTOMOLA Meyrick, 1883
EPICHARMA Walsingham, 1897
PROSOMURA Turner, 1919

59a0001 A. kyotensis (Matsumura, 1931) (Depressaria) I [NEW]
NOTE: This introduced Japanese species was reported from NA by Hayden & Dickel (2015). Pohl et al. (2016) listed this species twice; here as well as erroneously in *Antaeotricha* (P-no. 420244; omitted herein).
deodora (Clarke, 1962) (Brachmia)

Subfamily OEGOCONIINAE Leraut, 1992

Genus OEGOCONIA Stainton, 1854
ID INFO: Landry et al. (2013).
APATEMA Walsingham, 1900
CLEROGENES Meyrick, 1921
MICROGONIA Popescu-Gorj & Căpuşe, 1965
OECOGONIA; [various, no date] missp.

59a0002 O. novimundi (Busck, 1915) (Symmoca) [NEW]
59a0003E O. quadripuncta (Haworth, 1828) (Recurvaria) EXCL. 1134
NOTE: All NA material associated with this name is either *O. novimundi* or *O. deauratella*; *O. quadripuncta* does not occur in NA (Landry et al. 2013).
59a0004 O. deauratella (Herrich-Schäffer, 1855) (Lampros) I [NEW]
NOTE: Introduced from Europe before 1976 (Landry et al. 2013).
bacescui Popescu-Gorj & Căpuşe, 1965 (Oegoconia)

Subfamily SYMMOCINAE Gozmány, 1957

Genus SCEPTEA Walsingham, 1891
ID INFO: Lee & Brown (2010).
SCEPTIA; McDunnough, 1939 missp.

59a0005 S. aequepulvella Chambers, 1872 (Sceptea) 1135
aberratella (Busck, 1907) (Glyphidocera)

Genus SYMMOCA Hübner, 1825
ID INFO: Lee & Brown (2010).
ASARISTA Meyrick, 1935
CONQUASSATA Gozmány, 1957
PARASYMMOCA Rebel, 1903
SIMOCA Weiler, 1877
SYMMOLETRIA Gozmány, 1963

59a0006 S. signatella Herrich-Schäffer, 1854 (Symmoca) I 1133
NOTE: Introduced from Europe to southern CA in the 1940s (Powell & Opler 2009).
melitensis Amsel, 1954 (Symmoca)
rosmarinella Walsingham, 1901 (Symmoca)

Genus SPINITIBIA Lee & Brown, 2010
ID INFO: Lee & Brown (2010).

59a0007 S. hodgesi Lee & Brown, 2010 (Spinitibia) [NEW]

Genus GERDANA Busck, 1908
ID INFO: Clarke (1941).
NOTE: *Gerdana* was included in Symmocinae by Brown et al. (2004a); its omission by Lee & Brown (2010) appears to be an oversight. Clarke (1941) treated the genus and species in a section at the end for "genera and species excluded from the Oecophoridae".

59a0008 G. caritella Busck, 1908 (Gerdana) 1144
telemacha (Meyrick, 1927) (Mnesistega)

Genus TAYGETE Chambers, 1873
NOTE: *Taygete* was transferred from Gelechiidae to Symmocinae by Landry (2002). It was not listed among the NA Symmocinae by Lee & Brown (2010).

59a0009 T. attributella (Walker, 1864) (Gelechia) 1842
difficilisella (Chambers, 1872) (Evagora)
59a0010 T. citrinella (Barnes & Busck, 1920) (Epithectis) 1843
59a0011 T. decemmaculella (Chambers, 1872) (Gelechia) 1844
bicostomaculella (Chambers, 1877) (Gelechia)
osteosema (Meyrick, 1929) (Epithectis)
thoracella (Walsingham, 1888) (Oecophora)
59a0012 T. gallaegenitella (Clemens, 1864) (Gelechia) 1845
geminella (Riley, 1871) (Gelechia)
59a0013 T. saundersella (Chambers, 1876) (Gelechia) 1846
59a0014 T. sylvicolella (Busck, 1903) (Epithectis) 1847

Subfamily GLYPHIDOCERINAE Hodges, 1999

Genus GLYPHIDOCERA Walsingham, 1892
ID INFO (partial): Adamski & Brown (1987), Adamski (2000a), Adamski & Metzler (2000).
HARPAGANDRA Meyrick, 1929

59a0015 G. barythyma Meyrick, 1929 (Glyphidocera) 1136
59a0016 G. democratica Meyrick, 1929 (Glyphidocera) 1137
59a0017 G. dimorphella Busck, 1907 (Glyphidocera) 1143
59a0018 G. floridanella Busck, 1901 (Glyphidocera) 1138
59a0020 G. juniperella Adamski, 1987 (Glyphidocera) [NEW]
59a0021 G. lactiflosella (Chambers, 1878) (Gelechia) 1139
59a0022 G. lithodoxa Meyrick, 1929 (Glyphidocera) 1140
59a0023 G. meyrickella Busck, 1907 (Glyphidocera) 1141
59a0024 G. septentrionella Busck, 1904 (Glyphidocera) 1142
hurlberti Adamski, 2000 (Glyphidocera) N. SYN.
NOTE: New synonymy. There are no external or internal differences between *hurlberti* and *G. septentrionella*, based on external appearance and images of dissections of the types examined by GRP (figure of the *hurlberti* holotype in Adamski (2000a); image of the *septentrionella* holotype at the Smithsonian Institution website [https://collections.nmnh.si.edu/search/ento/]). Additionally, a paratype of *hurlberti* shares a BIN with *G. septentrionella*. The description of *hurlberti* makes no mention of *G. septentrionella*.
isonephes Meyrick, 1929 (Glyphidocera)
speratella Busck, 1908 (Glyphidocera)
59a0025 G. wrightorum Adamski & Metzler, 2000 (Glyphidocera) [NEW]

Subfamily DEOCLONINAE Hodges, 1999

Genus DEOCLONA Busck, 1903
LIOCLEPTA Meyrick, 1922
PROCLESIS Walsingham, 1911

59a0026 D. yuccasella Busck, 1903 (Deoclona) 2311

49. Family OECOPHORIDAE Bruand, 1851

by Gregory R. Pohl & Jean-François Landry

Most Oecophorids are very small to medium-sized moths (8 to 25 mm wingspans in NA species), with broad wings and long upcurved palps. Many characters are extremely variable, but most species can be recognized by the shape of the male gnathos, which is fused to the tegumen without articulation (Hodges 1999a). Larvae of many oecophorid species feed on fungi and detritus in leaf litter and bark; some tie leaves or make cases from twigs or bits of leaves. A few are pests of stored food and household goods.

This family has been a “catch-all” for many difficult-to-place gelechioid groups, and several subfamilies have recently been moved out of the Oecophoridae to other families in the Gelechioidea. This includes most of the taxa treated in the monograph of the group by Hodges (1974). The former subfamilies Depressariinae and Peleopodinae have been moved to the family Depressariidae, and Chimabacchinae has been moved to Lypusidae following Heikkilä et al. (2014). The genus *Ymeldia* was transferred to Oecophoridae from Gelechiidae by Lee et al. (2009) without details.

As currently defined, the family Oecophoridae is distributed nearly worldwide, with approximately 3,400 described species, primarily in Australia. Thirty-nine species are known from the Nearctic region. Most species currently placed in the family were treated in revisions by Clarke (1941) and Hodges (1974). The former is based on outdated nomenclature, and the latter does not adequately illustrate all the genitalia, so both monographs are often required to make reliable identifications.

Subfamily OECOPHORINAE Bruand, 1851

Tribe OECOPHORINI Bruand, 1851

NOTE: Although the sequence of genera in Hodges (1974) is outdated, we follow it for expediency, with the genera *Oecophora*, *Promalactis*, and *Tachystola* placed at the end of the tribe, as their phylogenetic relationships to native NA genera is unknown.

Genus INGA Busck, 1908
ID INFO: Hodges (1974).

AGRIOTORNA Meyrick, 1931
EPIMORYCTIS Meyrick, 1930
HOROMERISTIS Meyrick, 1931
LISIGRAPHA Meyrick, 1914
ORSIMACHA Meyrick, 1914
PELOMIMAS Meyrick, 1914
PHANERODOXA Meyrick, 1921
SIDEROGRAPTIS Meyrick, 1920

59a0029 I. sparsiciliella (Clemens, 1864) (Anesychia) 1034
atropicta (Zeller, 1876) (Cryptolechia)
contrariella (Walker, 1864) (Cryptolechia)
inscitella (Walker, 1864) (Cryptolechia)
59a0030 I. cretacea (Zeller, 1873) (Cryptolechia) 1035
59a0031 I. ciliella (Busck, 1908) (Cryptolechia) 1036
humata (Meyrick, 1914) (Machimia)
59a0032 I. obscuromaculella (Chambers, 1878) (Cryptolechia) 1037
59a0033 I. canariella (Busck, 1908) (Cryptolechia) 1038
59a0034 I. concolorella (Beutenmüller, 1888) (Cryptolechia) 1039
59a0035 I. proditrix Hodges, 1974 (Inga) 1040
59a0036 I. rimatrix Hodges, 1974 (Inga) 1041

Genus DECANTHA Busck, 1908
ID INFO: Hodges (1974).

59a0037 D. boreasella (Chambers, 1873) (Oecophora) 1042
borkhausenii of authors; (not Zeller, 1839) (Oecophora) misappl.
NOTE: This Old World name was used by Busck (1904), Dyar (1904), and Forbes (1923), under a previous Holarctic concept of *D. borkhausenii*.
59a0038 D. stecia Hodges, 1974 (Decantha) 1043
59a0039 D. tistra Hodges, 1974 (Decantha) 1044
59a0040 D. stonda Hodges, 1974 (Decantha) 1045

Genus CALLIMA Clemens, 1860
ID INFO: Hodges (1974).

EPICALLIMA Dyar, 1903
NOTE: *Epicallima* is widely used as a replacement name for *Callima*, but that designation by Dyar (1903), was incorrect. It was based on a misspelling of *Kallima* Doubleday, 1849, by Herrich-Schäffer, 1858, rather than a valid older name. *Callima* stands as the valid name for this genus, according to the ICZN.
HANNEMANNIANA Vives, 1986
SUBCALLIMA Lvovsky & Arutyunova, 1992

59a0041 C. argenticinctella Clemens, 1860 (Callima) 1046
59a0042 C. nathrax Hodges, 1974 (Callima) 1047

Genus DAFA Hodges, 1974
ID INFO: Hodges (1974).
NOTE: This genus was described by Hodges (1974) with *D. formosella* as the sole species. Despite recent European checklists placing *Dafa* as a synonym of *Epicallima*, we retain it as a valid genus based on Hodges' diagnosis.

59a0043 D. formosella ([Denis & Schiffermüller], 1775) (Tinea) I 1048
NOTE: Introduced from Europe to NY/NJ; Hodges (1974) reported that no specimens have been seen since the 1940s, and thought it may not have established, but recent photo records have been confirmed in southern ON (iNaturalist).

Genus BATIA Stephens, 1834
ID INFO: Hodges (1974).

CHIROCAMPA; Morley & Rait-Smith, 1933 missp.
CHIROCOMPA Meyrick, 1914
DISCOLATA Spuler, 1910

59a0044 B. lunaris (Haworth, 1828) (Recurvaria) I 1049
NOTE: Introduced from Europe to western USA, first collected in WA in 1931 (Hodges 1974).
begrandella (Duponchel, 1842) (Gracillaria)
clavella (Herrich-Schäffer, 1854) (Lampros)
metznerella (Treitschke, 1835) (Plutella)

Genus FABIOLA Busck, 1908
ID INFO: Hodges (1974).

59a0046 F. shaleriella (Chambers, 1875) (Oecophora) 1050
59a0047 F. tecta Braun, 1935 (Fabiola) 1051
59a0048 F. lucidella (Busck, 1912) (Epicallima) 1052
59a0049 F. edithella (Busck, 1907) (Epicallima) 1053
amplicincta (Braun, 1923) (Epicallima)
59a0050 F. quinqueferella (Walsingham, 1881) (Glyphipterix) 1054

Genus BRYMBLIA Hodges, 1974
ID INFO: Clarke (1941), Hodges (1974).

59a0051 B. quadrimaculella (Chambers, 1875) (Oecophora) 1055
dimidiella (Walsingham, 1888) (Oecophora)
yukonella (Lvovsky, 2007) (Denisia) N. SYN.
NOTE: New synonymy supported by holotype genitalia and DNA barcode (JFL).

Genus DENISIA Hübner, 1825
ID INFO: Clarke (1941), Hodges (1974).
BLEPHAROCERA Chambers, 1877
CHAMBERSIA Riley, 1891

59a0052 D. haydenella (Chambers, 1877) (Blepharocera) 1056

Genus ESPERIA Hübner, 1825
ID INFO: Hodges (1974).
STENOPTERA Duponchel, 1838

59a0053 E. sulphurella (Fabricius, 1775) (Alucita) I 1057
NOTE: Introduced from Europe to CA in the 1960s (Hodges 1974).
aucta (Krausse, 1915) (Oecophora)
orbonella (Hübner, 1813) (Tinea)

Genus POLIX Hodges, 1974
ID INFO: Hodges (1974).

59a0054 P. coloradella (Walsingham, 1888) (Oecophora) 1058
rostrigera (Meyrick, 1919) (Schiffermuelleria)

Genus MATHILDANA Clarke, 1941
ID INFO: Hodges (1974).

59a0055 M. newmanella (Clemens, 1864) (Dasycera) 1059
59a0056 M. flipria Hodges, 1974 (Mathildana) 1060

Genus BORKHAUSENIA Hübner, 1825
ID INFO: Hodges (1974).

59a0057 B. nefrax Hodges, 1974 (Borkhausenia) 1061
59a0057.1 B. fuscescens (Haworth, 1828) (Recurvaria) I [NEW]
NOTE: Introduced European species, first collected in NA at Maple Ridge, BC, by A. Li and J. Derhousoff in 2005. The species was confirmed in WA by Petersen & Looney (2020).

Genus CAROLANA Clarke, 1941
ID INFO: Hodges (1974).

59a0058 C. ascriptella (Busck, 1908) (Borkhausenia) 1062
59a0059 C. golmeia Hodges, 1974 (Carolana) 1063

Genus HOFMANNOPHILA Spuler, 1910
ID INFO: Clarke (1941), Hodges (1974).

59a0060 H. pseudospretella (Stainton, 1849) (Oecophora) C/I 1064
NOTE: This cosmopolitan pest was probably introduced from Europe.

Genus ENDROSIS Hübner, 1825
ID INFO: Clarke (1941), Hodges (1974).

59a0061 E. sarcitrella (Linnaeus, 1758) (Phalaena) C/I 1067
NOTE: This cosmopolitan pest was probably introduced from Europe.
antarctica Staudinger, 1898 (Endrosis)
betulinella (Hübner, 1819) (Tinea)
ferrestrella; Chambers, 1875 (Endrosis) missp.
kennecottella Clemens, 1860 (Endrosis)
lacteella; (Forbes, 1923) (Tinea) missp.
lactella ([Denis & Schiffermüller], 1775) (Tinea)
subditella (Walker, 1864) (Gelechia)

Genus EIDO Chambers, 1873
ID INFO: Hodges (1974).
EUMEYRICKIA Busck, 1902
VENILIA Chambers, 1872

59a0062 E. trimaculella (Fitch, 1856) (Chaetochilus) 1068
albapalpella (Chambers, 1872) (Venilia)
albapulvella (Chambers, 1875) (Anarsia)
haustellata (Walsingham, 1882) (Chimabacche)

Genus OECOPHORA Latreille, 1796
ID INFO: Peterson et al. (2007).
TRAGOCERA Billberg, 1820

59a0063 O. bractella (Linnaeus, 1758) (Phalaena) I [NEW]
NOTE: Recent European introduction, reported by Peterson et al. (2007).
druryella (Stoll, in: Cramer, [1782]) (Phalaena)
mariboensis (Strand, 1927) ([unknown])
sulphurella (Fabricius, 1777) (Tinea)

Genus PROMALACTIS Meyrick, 1908
ID INFO: Adamski et al. (2009a).

59a0063.5 P. suzukiella (Matsumura, 1931) (Borkhausenia) I [NEW]
NOTE: Introduced from Japan; the earliest NA records are from MD in 2002 (Adamski et al. 2009a).

Genus TACHYSTOLA Meyrick, 1914
PYRICAUSTA Turner, 1946

59a0063.6 T. hemisema (Meyrick, 1885) (Ocystola) I [NEW]
NOTE: Recent discovery in NA, first found in southern CA in 2013, reported on BugGuide and BOLD, and confirmed by JFL via morphology and DNA barcodes. The original range of the species is eastern Australia.

Subfamily PLEUROTINAE Toll, 1956
ID INFO: Hodges (1974).

Tribe PLEUROTINI Toll, 1956

Genus PLEUROTA Hübner, 1825
EUPLEURIS Hübner, 1825
HOLOSCOLIA Zeller, 1839
PROTASIS Herrich-Schäffer, 1853

59a0064 P. albastrigulella (Kearfott, 1907) (Dorota [sic]) 1074

[OECOPHORIDAE – Unplaced to Subfamily]

Genus YMELDIA Hodges, 1965
ID INFO: Hodges (1965).
NOTE: The genus *Ymeldia* was transferred to Oecophoridae from Gelechiidae by Lee et al. (2009) without details.

59a0065 Y. janae Hodges, 1965 (Ymeldia) 2216

50. Family LYPUSIDAE Herrich-Schäffer, 1857

by Lauri Kaila

Lypusids are small broad-winged moths defined as a group by characters of the pupae and the genitalia, as well as DNA sequence data. In the sole NA species, males have wingspans of 17 to 20 mm; females have reduced wings and are flightless. The sole NA subfamily Chimabacchinae are defined by the larvae having swollen hind tibiae.

This group was historically placed in the Tineoidea, but was moved to Gelechioidea by Heikkilä & Kaila (2010), and given full family status by Heikkilä et al. (2014). After transfer of a large group of Old World taxa to Autostichidae by Wang & Li (2020), about 40 species remain in the family worldwide, all from the Old World. One species has been introduced to the Nearctic region. It was treated by Hodges (1974) within the Oecophoridae.

Subfamily CHIMABACCHINAE Heinemann, 1870

NOTE: This subfamily has been historically misspelled as “Chimabachinae”.

Genus DASYSTOMA Curtis, 1833

59a0065.5 D. salicella (Hübner, 1796) (Tinea) I 1075
NOTE: Introduced from Europe to southwestern BC, first found in 1955 (Hodges (1974).

51. Family DEPRESSARIIDAE Meyrick, 1883 (flat moths)

by Gregory R. Pohl & Jean-François Landry

Most flat moths are small moths with broad wings (wingspans of 10 to 25 mm), usually held flat over the body, and long, sickle-shaped, upturned labial palps. Larvae of almost all species feed on living plants, unlike the Oecophoridae that they have been historically grouped with. Larvae of Depressariinae are leaf tiers, stem borers, and seed feeders of many plant families. Species of Ethmiinae mainly feed beneath light webbing on Boraginaceae and Hydrophyllaceae. Larvae of various Stenomatinae species have been observed as leaf miners, stem borers, seed eaters, or leaf skeletonizers from within silken tubes (Aiello 1981); several species are oak feeders (Duckworth 1964). Larvae of Peleopodinae and Oditinae are poorly known.

The Depressariidae as currently constituted was recognized by Heikkilä et al. (2014). It contains seven subfamilies (five of which occur in NA) and a group of three New World genera unassigned to any subfamily. It is a diverse group with no known synapomorphy, and the constituent subfamilies have been scattered historically all over the Gelechioidea. The Depressariinae were historically placed in Oecophoridae, then moved to the Elachistidae by Minet (1990). The Ethmiinae and Stenomatinae were historically separate families that Minet (1990) also placed within Elachistidae. The Peleopodinae have been problematic in phylogenetic anayses and have been placed in numerous positions in the superfamily, most recently as a separate family by Wang & Li (2020). We continue to treat Peleopodinae as a subfamily of Depressariidae (see the introduction for details). The Oditinae was erected as a subfamily in Lecithoceridae by Lvovsky (1996) to unite a small group of genera that had been historically placed in that family. It was associated with Depressariidae by Heikkilä et al. (2014). Wang & Li (2020) treated the Oditinae as a subfamily of Peleopodidae, but for the reasons given in the introduction, we do not accept their conclusions regarding Peleopodinae, and thus, we follow Heikkilä et al. (2014) and place the group here. The three genera (*Eupragia*, *Machimia*, *Psilocorsis*) that are unplaced in the current list were placed in "Depressariinae: Amphisbatini" in the Oecophoridae by Hodges (1974), and later treated as a separate family Amphisbatidae by Hodges (1999a). Wang & Li (2020) placed *Machimia* in Peleopodidae. We follow Heikkilä et al. (2014) and leave these three genera unplaced within Depressariidae.

The Depressariidae as defined above are distributed worldwide, with about 2,300 described species. There are 203 species known in the Nearctic region. Our species-level knowledge of this family is reasonably complete, as most have been treated in the past 50 years. Hodges (1974) revised the Depressariinae, Peleopodinae, and unplaced genera in his monograph of Oecophoridae; however, many species are described and illustrated more fully by Clarke (1941). Powell (1973) revised the Ethmiinae, and Duckworth (1964) treated the Stenomatinae.

Subfamily DEPRESSARIINAE Meyrick, 1883

Genus AGONOPTERIX Hübner, 1825

ID INFO: Clarke (1941), Hodges (1974); also Harrison & Berenbaum (2005).

AGONOPTERYX; Stephens, 1834 emend.
CTENIOXENA Meyrick, 1923
EPELEUSTIA Hübner, 1825
HAEMILIS; Duponchel, 1838 emend.
HAEMYLIS Treitschke, 1832
PINARIA Hübner, 1825
SYLLOCHITIS Meyrick, 1910
TICHONIA Hübner, 1825

59a0066 A. gelidella (Busck, 1908) (Depressaria) 855

59a0067 A. conterminella (Zeller, 1839) (Depressaria) H [NEW]
NOTE: This Holarctic species (Buchner & Šumpich 2020) was first found in NA in 1981 (Landry et al. 2013).

59a0068 A. hyperella (Ely, 1910) (Agonopteryx) 856
testifica (Meyrick, 1920) (Depressaria)

59a0069 A. lythrella (Walsingham, 1889) (Depressaria) 857
arcuella Clarke, 1941 (Agonopterix)

59a0070 A. nubiferella (Walsingham, 1881) (Depressaria) 858

59a0071 A. curvilineella (Beutenmüller, 1889) (Depressaria) 859

59a0072 A. muricolorella (Busck, 1902) (Depressaria) 860

59a0073 A. oregonensis Clarke, 1941 (Agonopterix) 861

59a0074 A. clemensella (Chambers, 1876) (Gelechia) 862

59a0075 A. clarkei (Keifer, 1936) (Agonopteryx) 863

59a0076 A. atrodorsella (Clemens, 1863) (Depressaria) 864

59a0077 A. pteleae Barnes & Busck, 1920 (Agonopterix) 865

59a0078 A. eupatoriiella (Chambers, 1878) (Depressaria) 866
eupatoriella; Poole, 1996 (Agonopterix) missp.
plummerella (Busck, 1908) (Agonopteryx)

59a0079 A. pulvipennella (Clemens, 1864) (Depressaria) 867
solidaginis (Walsingham, 1889) (Depressaria)

59a0080 A. nigrinotella (Busck, 1908) (Depressaria) 868

59a0080.1 A. costimacula Clarke, 1941 (Agonopterix) [NEW]
NOTE: Reinstated from synonymy with *A. nigrinotella* to full species by Harrison & Berenbaum (2005); that was missed by Pohl et al. (2016).

59a0080.2 A. paulae Harrison, 2005 (Agonopterix) [NEW]

59a0081 A. walsinghamella (Busck, 1902) (Depressaria) 869
fernaldella (Walsingham, 1889) (Depressaria)

59a0082 A. fusciterminella Clarke, 1941 (Agonopterix) 870

59a0083 A. chrautis Hodges, 1974 (Agonopterix) 871

59a0084 A. sabulella (Walsingham, 1881) (Depressaria) 872
callosella (Barnes & Busck, 1920) (Agonopteryx)

59a0085 A. dammersi Clarke, 1947 (Agonopterix) 873

59a0086 A. cajonensis Clarke, 1941 (Agonopterix) 874

59a0087 A. alstroemeriana (Clerck, 1759) (Phalaena) I 874.1
NOTE: Introduced from Europe (Powell & Passoa 1991); now used for biocontrol of Poison Hemlock (*Conium maculatum* L.; Apiaceae).
monilella ([Denis & Schiffermüller], 1775) (Tinea)
puella (Hübner, 1796) (Tinea)

59a0088 A. toega Hodges, 1974 (Agonopterix) 875

59a0089 A. rosaciliella (Busck, 1904) (Depressaria) 876
echinopanicis Clarke, 1941 (Agonopterix)
rosiciliella; (Meyrick, 1922) (Depressaria) missp.

59a0090 A. ciliella (Stainton, 1849) (Depressaria) H 877
NOTE: This species was presumed to be introduced from Europe to NS, and possibly not established (Hodges 1974), based on two specimens collected in 1917 and 1943. However, DNA barcode data from eastern and western Canada suggest that it is still in NA, and genetic variability indicates that it is Holarctic rather than introduced (GRP).
annexella (Zeller, 1868) (Depressaria)

59a0091 A. canadensis (Busck, 1902) (Depressaria) 878
pallidella (Busck, 1904) (Depressaria)
serrae (Clarke, 1933) (Agonopteryx)
terinella (Barnes & Busck, 1920) (Agonopteryx)

59a0092 A. arnicella (Walsingham, 1881) (Depressaria) 879

59a0093 A. flavicomella (Engel, 1907) (Depressaria) 880

59a0094 A. senicionella (Busck, 1902) (Depressaria) 881
seniciella; (Busck, 1902) (Depressaria) missp.

59a0095 A. robiniella (Packard, 1869) (Depressaria) 882
hilarella (Zeller, 1873) (Depressaria)

59a0096 A. cratia Hodges, 1974 (Agonopterix) 883

59a0097 A. thelmae Clarke, 1941 (Agonopterix) 884

59a0098 A. sanguinella (Busck, 1902) (Depressaria) 885

59a0099 A. lecontella (Clemens, 1860) (Depressaria) 886

59a0100 A. dimorphella Clarke, 1941 (Agonopterix) 887

59a0101 A. pergandeella (Busck, 1908) (Depressaria) 888

59a0102 A. argillacea (Walsingham, 1881) (Depressaria) 889
blacella (Barnes & Busck, 1920) (Agonopteryx)

59a0103 A. amissella (Busck, 1908) (Depressaria) 890

59a0104 A. psoraliella (Walsingham, 1881) (Depressaria) 891
murmurans (Meyrick, 1927) (Depressaria)

59a0105 A. hesphoea Hodges, 1975 (Agonopterix) 892

59a0106 A. antennariella Clarke, 1941 (Agonopterix) 893
victori (Lesse & Viette, 1949) (Agonopteryx)

59a0107 A. nebulosa (Zeller, 1873) (Depressaria) 894

59a0108 A. nervosa (Haworth, 1811) (Depressaria) I 895
NOTE: Introduced from Europe to BC by 1915 (Winston et al. 2014).
blackmori (Busck, 1922) (Agonopteryx)
boicella (Freyer, 1835) (Depressaria)
costosa (Haworth, 1811) (Depressaria)
depunctella (Hübner, 1813) (Tinea)
dryadoxena (Meyrick, 1920) (Depressaria)
venosata (Kautz, 1930) (Agonopteryx)

59a0109 A. posticella (Walsingham, 1881) (Depressaria) 896

59a0110 A. latipalpella Barnes & Busck, 1920 (Agonopterix) 897

59a0111 A. amyrisella (Busck, 1900) (Depressaria) 898
amyridella; (Meyrick, 1922) (Depressaria) emend.

59a0112 A. arenella ([Denis & Schiffermüller], 1775) (Tinea) I [NEW]
NOTE: Introduced from Europe, first collected in NA in ON by Paul Hebert in 2005, and confirmed by JFL; additional records are from BC (2010) and NS (2013).
gilvella (Hübner, 1796) (Tinea)
immaculana (Stephens, 1834) (Depressaria)

Genus EXAERETIA Stainton, 1841
ID INFO: Clarke (1941), Hodges (1974).
DEPRESSARIODES Turati, 1925
NOTE: *Depressariodes* was synonymized with *Exaeretia* by Becker (1984); that was overlooked by Pohl et al. (2016).
MARTYRHILDA Clarke, 1941

59a0113 E. canella (Busck, 1904) (Depressaria) 899
cogitata (Braun, 1926) (Agonopteryx)

59a0114 E. umbraticostella (Walsingham, 1881) (Depressaria) 900

59a0115 E. sordidella (Clarke, 1941) (Martyrhilda) 901

59a0116 E. gracilis (Walsingham, 1889) (Depressaria) 902

59a0117 E. thoracenigraeella (Chambers, 1875) (Gelechia) 903
novimundi (Walsingham, 1881) (Depressaria)
thoracinigrella; (Meyrick, 1922) (Depressaria) emend.

59a0118 E. thoracefasciella (Chambers, 1875) (Gelechia) 904
sphaeralceae (Clarke, 1941) (Martyrhilda)
thoracifasciella; (Meyrick, 1922) (Depressaria) emend.

59a0119 E. nechlys (Hodges, 1974) (Martyrhilda) 905

59a0120 E. nivalis (Braun, 1921) (Agonopteryx) 906
jacobi (McDunnough, 1944) (Martyrhilda)

59a0121 E. hildaella (Clarke, 1941) (Martyrhilda) 907

59a0122 E. ciniflonella (Lienig & Zeller, 1846) (Depressaria) H 908
isa (Clarke, 1947) (Martyrhilda)
klamathiana (Walsingham, 1881) (Depressaria)
kusnezovi (Krulikovsky, 1908) (Depressaria)
sciadopa (Meyrick, 1920) (Depressaria) REV. SYN.
NOTE: GRP has determined that Hodges (1974) synonymized *sciadopa* with *A. canadensis* in error, and it is hereby moved into synonymy with *Exaeretia ciniflonella* (rev. syn.). Although we have not examined the type of *sciadopa* in the NHMUK, the original description by Meyrick (1920) and subsequent treatment by Clarke (1941) place *sciadopa* very close to *E. ciniflonella*. Meyrick stated that the species "probably belongs to the *ciniflonella* group", which corresponds to *Exaeretia*, not *Agonopterix*. He described the forewing as having a white dot at the end of the cell, outlined in black (*A. canadensis* has a simple black spot in this position). Moreover, Clarke (1941) placed *sciadopa* in *Martyrhilda* (now a synonym of *Exaeretia*), and his figure of a *sciadopa* female is indistinguishable from *D. ciniflonella*; it is clearly not *A. canadensis*. Clarke considered *sciadopa* and *klamathiana* to be the New World counterparts of a Palaearctic concept of *E. ciniflonella*. Hodges' synonymy was made without comment.
smolandiae (Palm, 1943) (Depressaria)

59a0123 E. scabella (Zeller, 1873) (Depressaria) 909
scabrella; (Walsingham, 1881) (Depressaria) missp.

59a0124 E. fulva (Walsingham, 1882) (Depressaria) 910
endryopa (Meyrick, 1918) (Depressaria)

Genus BIBARRAMBLA Clarke, 1941
ID INFO: Clarke (1941), Hodges (1974).

59a0125 B. allenella (Walsingham, 1882) (Semioscopis) 911

Genus SEMIOSCOPIS Hübner, 1825
ID INFO: Clarke (1941), Hodges (1974).
EPIGRAPHIA Stephens, 1829

59a0126 S. packardella (Clemens, 1863) (Enicostoma) 912
eruditella (Grote, 1880) (Epigraphia)

59a0127 S. merriccella Dyar, 1902 (Semioscopis) 913
merrickella; Meyrick, 1922 (Semioscopis) emend.

59a0128 S. inornata Walsingham, 1882 (Semioscopis) 914

59a0129 S. megamicrella Dyar, 1902 (Semioscopis) 915
braunae Clarke, 1941 (Semioscopis)

59a0130 S. aurorella Dyar, 1902 (Semioscopis) 916

59a0131 S. mcdunnoughi Clarke, 1941 (Semioscopis) 917

Genus DEPRESSARIA Haworth, 1811
ID INFO: Hodges (1974), also Bucheli (2005).
SCHISTODEPRESSARIA Spuler, 1910
SIGANOROSIS Wallengren, 1881
VOLUCRUM Berthold, 1827

Depressaria artemisiae group Hodges, 1974

59a0133 D. artemisiae Nickerl, 1864 (Depressaria) H 919
dracunculi Clarke, 1933 (Depressaria)

59a0133.1 D. atrostrigella Clarke, 1941 (Depressaria) H 918

59a0134 D. palousella Clarke, 1941 (Depressaria) 920

59a0134.1 D. depressana (Fabricius, 1775) (Tinea) I [NEW]
NOTE: Introduced from Eurasia; first found in NA in ON in 2008 (Landry et al. 2013). It was reported as Holarctic by Buchner & Šumpich (2020) but the absence of records prior to 2008 indicates it has been recently introduced.
depressella Fabricius, 1798 (Depressaria)
rhodochlora Meyrick, 1923 (Depressaria)

Depressaria pastinacella group Hodges, 1974

59a0136 D. radiella (Goeze, 1783) (Phalaena) I [NEW]
NOTE: Introduced from Europe, first found in NA in ON in 1869. The correct name for this species, previously known as *D. heracliana* (often misspelled "*heracleana*") or *D. pastinacella*, was clarified by Karsholt et al. (2004).
caucasica Christoph, 1877 (Depressaria)
heracleana; [various, no date] (Depressaria) missp.
heraclei (Retzius, 1783) (Phalaena)
heracliana of authors; (not Linnaeus, 1758) (Phalaena) misappl.
ontariella Bethune, 1870 (Depressaria)
pastinacella (Duponchel, 1838) (Haemilis) [922]
sphondiliella Bruand, 1851 (Depressaria)

59a0138 D. daucella ([Denis & Schiffermüller], 1775) (Tinea) I 924
NOTE: Introduced from Europe (Hodges 1974).
apiella (Hübner, 1796) (Tinea)
rubricella ([Denis & Schiffermüller], 1775) (Tinea)

59a0138.1 D. cinereocostella Clemens, 1864 (Depressaria) 921
clausella Walker, 1864 (Depressaria)

59a0138.2 D. juliella Busck, 1908 (Depressaria) 923

59a0139 D. eleanorae Clarke, 1941 (Depressaria) 925

Depressaria thomaniella group Hodges, 1974

59a0140 D. alienella Busck, 1904 (Depressaria) 926
corystopa Meyrick, 1927 (Depressaria)
emeritella of authors; not Stainton, 1849 (Depressaria) misappl.
nymphidia Meyrick, 1918 (Depressaria)
59a0141 D. artemisiella McDunnough, 1927 (Depressaria) 927

Depressaria betina group Hodges, 1974

59a0143 D. betina Clarke, 1947 (Depressaria) 929
59a0143.1 D. constancei Clarke, 1947 (Depressaria) 928

Depressaria douglasella group Hodges, 1974

59a0144 D. whitmani Clarke, 1941 (Depressaria) 930
59a0145 D. schellbachi Clarke, 1947 (Depressaria) 931
59a0146 D. angelicivora Clarke, 1952 (Depressaria) 932
59a0147 D. leptotaeniae Clarke, 1933 (Depressaria) 933
59a0148 D. yakimae Clarke, 1941 (Depressaria) 934
59a0149 D. multifidae Clarke, 1933 (Depressaria) 935
59a0150 D. moya Clarke, 1947 (Depressaria) 936
59a0151 D. besma Clarke, 1947 (Depressaria) 937
59a0152 D. pteryxiphaga Clarke, 1952 (Depressaria) 938
59a0153 D. togata Walsingham, 1889 (Depressaria) 939
thustra Clarke, 1947 (Depressaria)
59a0154 D. armata Clarke, 1952 (Depressaria) 940
59a0155 D. angustati Clarke, 1941 (Depressaria) 941

Genus NITES Hodges, 1974
ID INFO: Clarke (1941), Hodges (1974).

59a0157 N. grotella (Robinson, 1869) (Depressaria) 942
symmochlota (Meyrick, 1918) (Depressaria)
59a0158 N. atrocapitella (McDunnough, 1944) (Depressaria) 943
59a0159 N. betulella (Busck, 1902) (Depressaria) 944
59a0160 N. maculatella (Busck, 1908) (Depressaria) 945
59a0161 N. ostryella (McDunnough, 1943) (Depressaria) 946

Genus APACHEA Clarke, 1941
ID INFO: Clarke (1941), Hodges (1974).

59a0162 A. barberella (Busck, 1902) (Depressaria) 947

Genus HIMMACIA Clarke, 1941
ID INFO: Hodges (1974).

59a0163 H. huachucella (Busck, 1908) (Cryptolechia) 948
59a0164 H. stratia Hodges, 1974 (Himmacia) 949
59a0165 H. diligenda (Meyrick, 1928) (Cryptolechia) 950

Subfamily ETHMIINAE Busck, 1909
ID INFO: Powell (1973).

Genus PYRAMIDOBELA Braun, 1923
IDIOPTILA Meyrick, 1927

59a0166 P. quinquecristata (Braun, 1921) (Enicostoma) 961
59a0167 P. angelarum Keifer, 1936 (Pyramidobela) I? 961.1
NOTE: Powell (1973) reported this species from urban areas in coastal CA, and treated it as likely introduced. The earliest known specimens are from 1934.
59a0168 P. agyrtodes (Meyrick, 1927) (Idioptila) 961.2

Genus ETHMIA Hübner, 1819
ID INFO: Powell (1973); also Heppner (1988, 1991a).
AEDIA Duponchel, 1836
ANESYCHIA Hübner, 1825
AZINIS Walker, 1863
BABAIAXA Busck, 1902
CERATOPHYSETIS Meyrick, 1887
CHALYBE Duponchel, 1836
DISTHYMNIA Hübner, 1825
MELANOLEUCA Stephens, 1829
PSECADIA Hübner, 1825
TAMARRHA Walker, 1864
THEOXENIA Walsingham, 1887
WILTSHIREIA Amsel, 1949

Ethmia albitogata group Powell, 1973

59a0169 E. umbrimarginella Busck, 1907 (Ethmia) 962
59a0170 E. lassenella Busck, 1908 (Ethmia) 963
59a0171 E. coquillettella Busck, 1907 (Ethmia) 964
59a0172 E. monachella Busck, 1910 (Ethmia) 965
59a0173 E. scylla Powell, 1973 (Ethmia) 966
59a0174 E. brevistriga Clarke, 1950 (Ethmia) 967
ssp. a. brevistriga Clarke, 1950 (Ethmia)
ssp. b. aridicola Powell, 1973 (Ethmia)
59a0175 E. albitogata Walsingham, 1907 (Ethmia) 968
59a0176 E. plagiobothrae Powell, 1973 (Ethmia) 969
59a0177 E. minuta Powell, 1973 (Ethmia) 970
59a0178 E. tricula Powell, 1973 (Ethmia) 971

Ethmia charybdis group Powell, 1973

59a0179 E. charybdis Powell, 1973 (Ethmia) 972

Ethmia semilugens group Powell, 1973

59a0180 E. albistrigella (Walsingham, 1880) (Psecadia) 973
ssp. a. albistrigella (Walsingham, 1880) (Psecadia)
chrysurella (Dietz, 1905) (Breckenridgia)
ssp. b. icariella Powell, 1973 (Ethmia)
59a0181 E. nadia Clarke, 1950 (Ethmia) 974
59a0182 E. orestella Powell, 1973 (Ethmia) 975
59a0183 E. semilugens (Zeller, 1872) (Psecadia) 976
multipunctella (Chambers, 1874) (Anesychia)
plumbeella (Beutenmüller, 1889) (Psecadia)
semiopaca (Grote, 1881) (Psecadia)
59a0184 E. epileuca Powell, 1959 (Ethmia) 977
59a0185 E. apicipunctella (Chambers, 1875) (Hyponomeuta) 978
zavalla Busck, 1915 (Ethmia)
59a0186 E. arctostaphylella (Walsingham, 1880) (Psecadia) 979
mediella Busck, 1913 (Ethmia)
obscurella (Beutenmüller, 1888) (Psecadia)
59a0187 E. discostrigella (Chambers, 1877) (Anesychia) 980
ssp. a. discostrigella (Chambers, 1877) (Anesychia)
ssp. b. subcaerulea (Walsingham, 1880) (Psecadia)
59a0188 E. semitenebrella Dyar, 1902 (Ethmia) 981

Ethmia macelhosiella group Powell, 1973

59a0189 E. macelhosiella Busck, 1907 (Ethmia) 982
59a0190 E. geranella Barnes & Busck, 1920 (Ethmia) 983
59a0191 E. timberlakei Powell, 1973 (Ethmia) 984
59a0192 E. macneilli Powell, 1973 (Ethmia) 985

Ethmia bipunctella group Powell, 1973

59a0193 E. bipunctella (Fabricius, 1775) (Alucita) I 986
NOTE: Introduced from the Palaearctic to northeastern NA, first found in NY in 1964 (Powell 1973).
bipunctelia; (Uffeln, 1938) (Psecadia) missp.
echiella ([Denis & Schiffermüller], 1775) (Tinea)
griseicostella Wiltshire, 1947 (Ethmia)
hochenwartiella (Rossi, 1790) (Tinea)
59a0194 E. monticola (Walsingham, 1880) (Psecadia) 987
ssp. a. monticola (Walsingham, 1880) (Psecadia)
ssp. b. emmeli Powell, 1973 (Ethmia)
ssp. c. fuscipedella (Walsingham, 1888) (Psecadia)
59a0195 E. caliginosella Busck, 1904 (Ethmia) 988

Ethmia hagenella group Powell, 1973

59a0196 E. hagenella (Chambers, 1878) (Anesychia) 989
ssp. a. hagenella (Chambers, 1878) (Anesychia)
ssp. b. josephinella Chambers, 1878 (Ethmia)
59a0197 E. mimihagenella Powell, 1973 (Ethmia) 990
59a0198 E. burnsella Powell, 1973 (Ethmia) 991
59a0199 E. zelleriella (Chambers, 1878) (Hyponomeuta) 992
texanella (Chambers, 1880) (Hyponomeuta)

Ethmia kirbyi group Powell, 1973

59a0200 E. delliella (Fernald, 1891) (Psecadia) 993
59a0201 E. subsimilis Walsingham, 1897 (Ethmia) N/I [NEW]
NOTE: Added to the NA fauna by Dickel (1992); it was previously known from Jamaica and Cuba (Powell 1973).
59a0202 E. bittenella (Busck, 1906) (Tamarrha) 994

Ethmia cypraeella group Powell, 1973

59a0203 E. abraxasella (Walker, 1864) (Psecadia) extralim. [NEW]
NOTE: Added to the NA fauna by Heppner (1991a).
ssp. a. clarissa Busck, 1914 (Ethmia)

59a0204 E. submissa Busck, 1914 (Ethmia) N/I [NEW]
NOTE: Added to the NA fauna by Heppner (1991a) and Dickel (1992); it was previously known from Puerto Rico, Jamaica and Cuba (Powell 1973).

Ethmia notatella group Powell, 1973

59a0205 E. notatella (Walker, 1863) (Psecadia) 995
xanthorrhoa (Zeller, 1877) (Psecadia)

Ethmia confusella group Powell, 1973

59a0206 E. confusella (Walker, 1863) (Hyponomeuta) 996
ingricella (Möschler, 1890) (Psecadia)
strigosella (Walker, 1864) (Cryptolechia)
59a0207 E. julia Powell, 1973 (Ethmia) 997
59a0208 E. powelli Heppner, 1988 (Ethmia) [NEW]
59a0209 E. farrella Powell, 1973 (Ethmia) 998

Ethmia longimaculella group Powell, 1973

59a0210 E. longimaculella (Chambers, 1872) (Hyponomeuta) 999
ssp. a. longimaculella (Chambers, 1872) (Hyponomeuta)
walsinghamella (Beutenmüller, 1889) (Psecadia)
ssp. b. coranella Dyar, 1902 (Ethmia)
59a0211 E. kutisi Heppner, 1991 (Ethmia) [NEW]

Ethmia trifurcella group Powell, 1973

59a0212 E. semiombra Dyar, 1902 (Ethmia) 1000
59a0213 E. albicostella (Beutenmüller, 1889) (Psecadia) 1001
59a0214 E. mirusella (Chambers, 1874) (Anesychia) 1002
mirella Meyrick, 1914 (Ethmia)
59a0215 E. trifurcella (Chambers, 1873) (Anesychia) 1003
59a0216 E. marmorea (Walsingham, 1888) (Psecadia) 1004
59a0217 E. hodgesella Powell, 1973 (Ethmia) 1005
59a0218 E. sphenisca Powell, 1973 (Ethmia) 1006

Ethmia prattiella group Powell, 1973

59a0219 E. prattiella Busck, 1915 (Ethmia) 1007

Ethmia punctessa group Powell, 1973

59a0220 E. angustalatella Powell, 1973 (Ethmia) [NEW]
NOTE: This otherwise Mexican species was reported from TX by Blanchard & Knudson (1985d).

Genus PSEUDETHMIA Clarke, 1950

59a0221 P. protuberans Clarke, 1950 (Pseudethmia) 1008

Subfamily PELEOPODINAE Hodges, 1974

ID INFO: Hodges (1974).
NOTE: Treated as a separate family by Wang & Li (2020), but we consider it a subfamily here, see Depressariidae text for details.

Genus PSEUDEROTIS Clarke, 1956

59a0222 P. obiterella (Busck, 1908) (Durrantia) 1009
NOTE: Replacement name for *Ethmia chambersella* Dyar, 1903, a junior homonym of a different species: *Ethmia chambersella* Dyar, [1903] 1902. The name *chambersella* was erroneously proposed as a replacement name for *Anesychia texanella* Chambers, 1880 (now placed in *Prolita* in the Gelechiidae); Dyar should have instead proposed a replacement for *Hyponomeuta texanella* Chambers, 1880, another species described in the same paper by Chambers. In a later 1903 paper, Dyar realized his mistake, and also recognized that a replacement name was not required because *Hyponomeuta texanella* is a junior synonym of *Ethmia zelleriella* (Chambers, 1878). However, he was not sure about the identity of the specimen he had at hand, so he provided a description in case it represented a new species rather than "*Anesychia chambersella*". That proved to be the case, but this second "*Ethmia chambersella*" required a replacement name, because it is a junior homonym of his first "*Ethmia chambersella*".
chambersella (Dyar, [1903] 1902) (Ethmia) preocc.

Genus DURRANTIA Busck, 1908
DOLIDIRIA Busck, 1912

59a0223 D. piperatella (Zeller, 1873) (Cryptolechia) 1010
albella (Chambers, 1874) (Harpalyce)
montivola Meyrick, 1927 (Durrantia)

59a0223.1 D. amabilis Walsingham, 1912 (Durrantia) [NEW]
NOTE: This species was listed from TX by Knudson & Bordelon (2018); a voucher specimen is in the FSCA.

Genus CARCINA Hübner, 1825
ID INFO: Clarke (1941), Hodges (1974).
NOTE: Placement of this genus in Peleopodinae follows Wang & Li (2020).
PHIBALOCERA Stephens, 1829

59a0223.5 C. quercana (Fabricius, 1775) (Pyralis) I 1069
NOTE: Introduced from Europe to Victoria, BC; it was first found there in the 1920s (Hodges 1974).
cancella (Hübner, 1824) (Tinea)
fagana ([Denis & Schiffermüller], 1775) (Tortrix)
purpurana Millière, 1874 (Carcina)

Subfamily STENOMATINAE Meyrick, 1906

NOTE: This subfamily has been historically misspelled as "Stenominae".

Genus ANTAEOTRICHA Zeller, 1854
ID INFO: Duckworth (1964); also Ferris (2010b, 2012b, 2013), Hayden & Dickel (2015).
AEDEMOSES Walsingham, 1912
BRACHILOMA Clemens, 1863
HARPALYCE Chambers, 1874
IDE Chambers, 1880
MESOPTYCHA Zeller, 1854

59a0224 A. schlaegeri (Zeller, 1854) (Cryptolechia) 1011
metaphaeella (Walker, 1854) (Cryptolechia)
59a0225 A. lindseyi (Barnes & Busck, 1920) (Stenoma) 1012
59a0226 A. unipunctella (Clemens, 1863) (Brachiloma) 1013
lithosina (Zeller, 1873) (Cryptolechia)
tortricella (Chambers, 1874) (Harpalyce)
59a0227 A. leucillana Zeller, 1854 (Antaeotricha) 1014
algidella (Walker, 1864) (Cryptolechia)
59a0228 A. osseella (Walsingham, 1889) (Ide) 1015
querciella (Busck, 1908) (Brachyloma)
59a0229 A. decorosella (Busck, 1908) (Brachyloma) 1016
decorasella; (Barnes & Busck, 1920) (Stenoma) missp.
decorella; (Barnes & Busck, 1920) (Stenoma) missp.
59a0230 A. furcata (Walsingham, 1889) (Stenoma) 1017
59a0231 A. irene (Barnes & Busck, 1920) (Stenoma) 1018
59a0232 A. humilis (Zeller, 1855) (Cryptolechia) 1019
canusella (Chambers, 1874) (Harpalyce)
nubeculosa (Zeller, 1873) (Cryptolechia)
59a0233 A. agrioschista (Meyrick, 1927) (Stenoma) 1020
59a0234 A. thomasi (Barnes & Busck, 1920) (Stenoma) 1021
59a0235 A. haesitans (Walsingham, 1912) (Aedemoses) 1022
59a0236 A. fuscorectangulata Duckworth, 1964 (Antaeotricha) 1023
59a0237 A. albulella (Walker, 1864) (Cryptolechia) [NEW]
NOTE: The taxon *vestalis* was synonymized with *A. albulella* by Becker (1981), but that may be incorrect as two BINs are present in BOLD data.
vestalis (Zeller, 1873) (Cryptolechia) [1024]
59a0238 A. floridella Hayden & Dickel, 2015 (Antaeotricha) [NEW]
59a0239 A. manzanitae Keifer, 1937 (Antaeotricha) 1025
59a0240 A. arizonensis Ferris, 2010 (Antaeotricha) [NEW]
59a0241 A. utahensis Ferris, 2012 (Antaeotricha) [NEW]
59a0242 A. duckworthi Ferris, 2013 (Antaeotricha) [NEW]
59a0243 A. baboquivariensis Ferris, 2013 (Antaeotricha) [NEW]

Genus RECTIOSTOMA Becker, 1982
ID INFO: Duckworth (1964, 1971).
SETIOSTOMA Zeller, 1876

59a0245 R. xanthobasis (Zeller, 1876) (Setiostoma) 1026
59a0246 R. fernaldella (Riley, 1889) (Setiostoma) 1027

Genus MENESTOMORPHA Walsingham, 1907
ID INFO: Duckworth (1964).

59a0247 M. oblongata Walsingham, 1907 (Menestomorpha) 1028
59a0248 M. kimballi (Duckworth, 1964) (Mothonica) 1029

Genus MENESTA Clemens, 1860
ID INFO: Duckworth (1964).
HYALE Chambers, 1880

59a0249 M. tortriciformella Clemens, 1860 (Menesta) 1030
albaciliaeella (Chambers, 1875) (Hyale)
coryliella (Chambers, 1875) (Hyale)
liturella (Walker, 1864) (Gelechia)
59a0250 M. melanella Murtfeldt, 1890 (Menesta) 1031

Genus CHLAMYDASTIS Meyrick, 1916
ID INFO: Blanchard & Knudson (1986b).

59a0251 C. habrolepis Blanchard & Knudson, 1986 (Chlamydastis) [NEW]

Genus GONIOTERMA Walsingham, 1897
ID INFO: Duckworth (1964).

59a0252 G. mistrella (Busck, 1907) (Stenoma) 1032
59a0253 G. crambitella (Walsingham, 1889) (Stenoma) 1033

Subfamily ODITINAE Lvovsky, 1996

ID INFO: Wang & Li (2016).
NOTE: This subfamily was included in Lecithoceridae by Hodges (1999a) and Wang & Li (2016), but that was not supported in analyses by Heikkilä et al. (2014) and Sohn et al. (2016). We follow the latter and tentatively include the group in Depressariidae.

Genus SCYTHROPIODES Matsumura, 1931

59a0253.5 S. issikii (Takahashi, 1930) (Depressaria) I [NEW]
NOTE: This Asian species was recently reported as introduced to NA (Wang & Li 2016).
plocamoca (Meyrick, 1935) (Odites)

[DEPRESSARIIDAE – Unplaced to Subfamily]

Genus EUPRAGIA Walsingham, 1911
ID INFO: Hodges (1974).

59a0255 E. hospita Hodges, 1969 (Eupragia) 953
59a0256 E. banis Hodges, 1974 (Eupragia) 954

Genus MACHIMIA Clemens, 1860
ID INFO: Clarke (1941), Hodges (1974).

59a0257 M. tentoriferella Clemens, 1860 (Machimia) 951
confertella (Walker, 1864) (Depressaria)
fernaldella (Chambers, 1878) (Depressaria)
59a0258 M. trigama (Meyrick, 1928) (Cryptolechia) 952

Genus PSILOCORSIS Clemens, 1860
ID INFO: Hodges (1974).
HAGNO Chambers, 1872
PAEPIA Walker, 1864

59a0259 P. quercicella Clemens, 1860 (Psilocorsis) 955
59a0260 P. cryptolechiella (Chambers, 1872) (Depressaria) 956
cressonella (Chambers, 1878) (Cryptolechia)
dubiatella (Zeller, 1877) (Cryptolechia)
faginella (Chambers, 1872) (Hagno)
obsoletella (Zeller, 1873) (Cryptolechia)
59a0261 P. reflexella Clemens, 1860 (Psilocorsis) 957
caryae Clarke, 1941 (Psilocorsis)
ferruginosa (Zeller, 1873) (Cryptolechia)
fletcherella Gibson, 1909 (Psilocorsis)
59a0262 P. amydra Hodges, 1961 (Psilocorsis) 958
59a0263 P. arguta Hodges, 1961 (Psilocorsis) 959
59a0264 P. fatula Hodges, 1975 (Psilocorsis) 959.1
59a0265 P. cirrhoptera Hodges, 1961 (Psilocorsis) 960

GELECHIID ASSEMBLAGE OF FAMILIES Wang & Li, 2020

52. Family COSMOPTERIGIDAE Heinemann & Wocke, [1876] 1877 (cosmet moths)

by Sjaak Koster & Jean-François Landry

Cosmopterigid moths are very small to small moths, with wingspans of 8 to 21 mm. The family is rather diverse: in the subfamilies Chrysopeleiinae and Cosmopteriginae many species have narrow pointed fore- and hindwings; in Antequerinae and Scaeosophinae the wings are relatively broad. The larvae have diverse feeding habits; many are leaf miners, whereas others live in roots, stems or branches, feed on flowers and seeds, or are scavengers on plant material. Some species have unusual habits, such as *Euclemensia* that develop inside kermes scale insects and the aquatic and predatory *Hyposmocoma* that live in portable cases in Hawaii.

The family Cosmopterigidae is distributed worldwide, with most of the diversity in tropical regions. The family contains about 1,860 described species; 187 species are recorded for the Nearctic region. The NA fauna was revised by Hodges (1978), with some genera revised more recently by Koster (2010). Sinev (2002b) published a world catalog of the family.

NOTE: Heinemann & Wocke (1876) used the name Cosmopterygidae for the family, following the spelling of Zeller's *Cosmopteryx*. Hodges (1978) gives the following comment on the spelling Cosmopterygidae: "Heinemann spelled the family name Cosmopterygidae based on an emended spelling *Cosmopteryx*, which is etymologically correct and which has been used by almost all authors. The family name, based on the arbitrary combination of letters *Cosmopterix*, is correctly spelled Cosmoptericidae. Proponents of usage argue for the spelling Cosmopterigidae, and it is used in this Fascicle." The spelling Cosmopterigidae has been used exclusively for many decades.

Subfamily CHRYSOPELEIINAE Mosher, 1916

Genus PERIPLOCA Braun, 1919

59a0266 P. orichalcella (Clemens, 1864) (Elachista) 1560
concolorella (Chambers, 1875) (Elachista)
purpuriella Braun, 1919 (Periploca)
59a0267 P. arsa Hodges, 1978 (Periploca) 1561
59a0268 P. ceanothiella (Cosens, 1908) (Stagmatophora) 1562
59a0269 P. gleditschiaeella (Chambers, 1876) (Anybia) 1563
59a0270 P. intermedia Hodges, 1978 (Periploca) 1564
59a0271 P. repanda Hodges, 1978 (Periploca) 1565
59a0272 P. hostiata Hodges, 1969 (Periploca) 1566
59a0273 P. teres Hodges, 1978 (Periploca) 1567
59a0274 P. tridens Hodges, 1978 (Periploca) 1568
59a0275 P. hortatrix Hodges, 1969 (Periploca) 1569
59a0276 P. opinatrix Hodges, 1969 (Periploca) 1570
59a0277 P. atrata Hodges, 1962 (Periploca) 1571
59a0278 P. mimula Hodges, 1962 (Periploca) 1572
59a0279 P. laeta Hodges, 1962 (Periploca) 1573
59a0280 P. cata Hodges, 1962 (Periploca) 1574
59a0281 P. devia Hodges, 1969 (Periploca) 1575
59a0282 P. soror Hodges, 1978 (Periploca) 1576
59a0283 P. nigra Hodges, 1962 (Periploca) 1577
59a0284 P. fessa Hodges, 1962 (Periploca) 1578
59a0285 P. gulosa Hodges, 1962 (Periploca) 1579
59a0286 P. facula Hodges, 1962 (Periploca) 1580
59a0287 P. juniperi Hodges, 1978 (Periploca) [NEW]
juniperae; Hodges, 1983 (Periploca) missp. *[1581]*
59a0288 P. funebris Hodges, 1962 (Periploca) 1582
59a0289 P. serrulata Hodges, 1978 (Periploca) 1583
59a0290 P. dentella Hodges, 1978 (Periploca) 1584
59a0291 P. dipapha Hodges, 1969 (Periploca) 1585
59a0292 P. labes Hodges, 1969 (Periploca) 1586

Genus SISKIWITIA Hodges, 1969

59a0293 S. alticolans Hodges, 1969 (Siskiwitia) 1587
59a0294 S. latebra Hodges, 1978 (Siskiwitia) 1588
59a0295 S. falcata Hodges, 1978 (Siskiwitia) 1589

Genus PRISTEN Hodges, 1978
NEOPLOCA Hodges, 1964

59a0296 P. corusca (Hodges, 1964) (Neoploca) 1590

Genus SYNPLOCA Hodges, 1964

59a0297 S. gumia Hodges, 1964 (Synploca) 1591

Genus STILBOSIS Clemens, 1860
AEAEA Chambers, 1874
AMAUROGRAMMA Braun, 1919

59a0298 S. juvantis (Hodges, 1964) (Aeaea) 1592
59a0299 S. dulcedo (Hodges, 1964) (Aeaea) 1593
59a0300 S. venifica (Hodges, 1964) (Aeaea) 1594
59a0301 S. venatrix (Hodges, 1964) (Aeaea) 1595
59a0302 S. ostryaeella (Chambers, 1874) (Aeaea) 1596
59a0303 S. quadricustatella (Chambers, 1880) (Aeaea) 1597
quadricristatella; ([various, no date]) (Aeaea) missp.
59a0304 S. stipator (Hodges, 1964) (Aeaea) 1598
59a0305 S. risor (Hodges, 1964) (Aeaea) 1599
59a0306 S. victor (Hodges, 1964) (Aeaea) 1600
59a0307 S. placatrix (Hodges, 1969) (Aeaea) 1601
59a0308 S. sagana (Hodges, 1964) (Aeaea) 1602
59a0309 S. rhynchosiae (Hodges, 1964) (Aeaea) 1603
59a0310 S. extensa (Braun, 1919) (Amaurogramma) 1604
59a0311 S. pagina Hodges, 1978 (Stilbosis) 1605
59a0312 S. ornatrix Hodges, 1978 (Stilbosis) 1606
59a0313 S. scleroma Hodges, 1978 (Stilbosis) 1607
59a0314 S. rotunda Hodges, 1978 (Stilbosis) 1608
59a0315 S. tesquella Clemens, 1860 (Stilbosis) 1609
quinquecristatella; ([various, no date]) (Laverna) missp.
quinquicristatella (Chambers, 1881) (Laverna)
tesquatella; Chambers, 1878 (Stilbosis) missp.
59a0316 S. nubila Hodges, 1964 (Stilbosis) 1610
59a0317 S. lonchocarpella Busck, 1934 (Stilbosis) 1611

Genus CHRYSOPELEIA Chambers, 1874

59a0318 C. purpuriella Chambers, 1874 (Chrysopeleia) 1612

Genus WALSHIA Clemens, 1864

59a0319 W. particornella (Busck, 1909) (Perimede) 1613
59a0320 W. elegans Hodges, 1978 (Walshia) 1614
59a0321 W. miscecolorella (Chambers, 1875) (Laverna) emend. 1615
miscecalonella; (Chambers, 1875) (Laverna) orig. missp.
NOTE: Chambers (1875a) corrected his misspelling in a later section of the same publication, which was split across several issues of the journal (contributed by SRN).
59a0322 W. amorphella Clemens, 1864 (Walshia) 1616
59a0323 W. floridensis Hodges, 1978 (Walshia) 1617
59a0324 W. exemplata Hodges, 1961 (Walshia) 1618
59a0325 W. similis Hodges, 1961 (Walshia) 1619
59a0326 W. dispar Hodges, 1961 (Walshia) 1620

Genus NEPOTULA Hodges, 1964

59a0327 N. secura Hodges, 1964 (Nepotula) 1621

Genus AFEDA Hodges, 1978

59a0328 A. biloba Hodges, 1978 (Afeda) 1622

Genus PERIMEDE Chambers, 1874

59a0329 P. erransella Chambers, 1874 (Perimede) 1623
59a0330 P. battis Hodges, 1962 (Perimede) 1624
59a0331 P. latris Hodges, 1962 (Perimede) 1625
59a0332 P. grandis Hodges, 1978 (Perimede) 1626
59a0333 P. parilis Hodges, 1969 (Perimede) 1627
59a0334 P. circitor Hodges, 1969 (Perimede) 1628
59a0335 P. erema Hodges, 1969 (Perimede) 1629
59a0336 P. maniola Hodges, 1969 (Perimede) 1630
59a0337 P. ricina Hodges, 1962 (Perimede) 1631
59a0338 P. falcata Braun, 1919 (Perimede) 1632

Genus SORHAGENIA Spuler, 1910
CYSTIOECETES Braun, 1915
SORHAGENIELLA Riedl, 1965

59a0339 S. nimbosus (Braun, 1915) (Cystioecetes) 1633
59a0340 S. cracens Hodges, 1978 (Sorhagenia) 1634
59a0341 S. daedala Hodges, 1964 (Sorhagenia) 1635
59a0342 S. baucidis Hodges, 1969 (Sorhagenia) 1636
59a0343 S. pexa Hodges, 1969 (Sorhagenia) 1637

Genus ITHOME Chambers, 1875
ERIPHIA Chambers, 1875

59a0344 I. concolorella (Chambers, 1875) (Eriphia) 1638
unimaculella Chambers, 1875 (Ithome)
unomaculella; Chambers, 1875 (Ithome) missp.
59a0345 I. curvipunctella (Walsingham, 1892) (Anybia) 1639
quinquepunctata (Forbes, 1931) (Eriphia)
59a0346 I. ferax Hodges, 1961 (Ithome) 1640
59a0347 I. edax Hodges, 1961 (Ithome) 1641
59a0348 I. aquila Hodges, 1978 (Ithome) 1642
59a0349 I. lassula Hodges, 1961 (Ithome) 1643
59a0350 I. simulatrix Hodges, 1978 (Ithome) 1644

Genus OBITHOME Hodges, 1964

59a0351 O. punctiferella (Busck, 1906) (Mompha) 1645

Subfamily COSMOPTERIGINAE Heinemann & Wocke, [1876] 1877

Genus COSMOPTERIX Hübner, [1825]
ID INFO: Hodges (1978); also Koster (2010).
COSMOPTERYX; Zeller, 1839 emend.
LIENIGIA Spuler, 1910

59a0352 C. nitens (Walsingham, 1889) (Cosmopteryx) 1469
59a0353 C. sinelinea Hodges, 1978 (Cosmopterix) 1470
59a0354 C. molybdina Hodges, 1962 (Cosmopterix) H/I 1471
NOTE: Hodges (1978) suggested, based on its distribution, that this species might have been introduced to NA, but Koster (2010) assumed that it is native to NA and introduced to Europe.
59a0355 C. pulchrimella (Chambers, 1875) (Cosmopteryx) 1472
parietariae (Hering, 1931) (Cosmopteryx)
pulcherrimella; (Chambers, 1878) (Cosmopteryx) missp.
59a0356 C. astrapias (Walsingham, 1909) (Cosmopteryx) [NEW]
bendidia Hodges, 1962 (Cosmopterix) [1473]
59a0357 C. attenuatella (Walker, 1864) (Gelechia) H/I 1474
antichorda (Meyrick, 1909) (Cosmopteryx)
antillia (Forbes, 1931) (Cosmopteryx)
apiculata (Meyrick, 1922) (Cosmopteryx)
flavofasciata (Wollaston, 1879) (Cosmopteryx)
lespedezae of authors; (not Walsingham, 1882) (Cosmopteryx) misid.
melanarches Meyrick, 1929 (Cosmopterix)
mimetis (Meyrick, 1897) (Cosmopteryx)
superba of authors; (not Gozmány, 1960) (Cosmopteryx) misappl.
NOTE: This name was listed as a synonym of *C. attenuatella*, but it is now a synonym of the Palaearctic *Cosmopterix crassicervicella* Gosmany, 1960.
venifica (Meyrick, 1915) (Cosmopteryx)
59a0358 C. clandestinella (Busck, 1906) (Cosmopteryx) 1475
59a0359 C. montisella (Chambers, 1875) (Cosmopteryx) 1476
unicolorella (Walsingham, 1889) (Cosmopteryx)
59a0360 C. magophila (Meyrick, 1919) (Cosmopteryx) 1477
59a0361 C. dapifera Hodges, 1962 (Cosmopterix) 1479
59a0362 C. delicatella (Walsingham, 1889) (Cosmopteryx) 1480
59a0363 C. lespedezae (Walsingham, 1882) (Cosmopteryx) 1482
59a0364 C. opulenta (Braun, 1919) (Cosmopteryx) 1483
59a0365 C. chisosensis Hodges, 1978 (Cosmopterix) 1484
59a0366 C. quadrilineella (Chambers, 1878) (Cosmopteryx) 1485
59a0367 C. minutella (Beutenmüller, 1889) (Cosmopteryx) 1486
59a0368 C. inopis Hodges, 1962 (Cosmopterix) 1488
gracilens Hodges, 1962 (Cosmopterix) [1478]
59a0369 C. chalybaeella (Walsingham, 1889) (Cosmopteryx) 1489
59a0370 C. gemmiferella (Clemens, 1860) (Cosmopteryx) 1490
59a0371 C. bacata Hodges, 1962 (Cosmopterix) 1491
59a0372 C. damnosa Hodges, 1962 (Cosmopterix) 1492
59a0373 C. clemensella (Stainton, 1860) (Cosmopteryx) 1493
hermodora (Meyrick, 1919) (Cosmopteryx)
59a0374 C. scirpicola Hodges, 1962 (Cosmopterix) 1494
59a0375 C. ebriola Hodges, 1962 (Cosmopterix) 1495
59a0376 C. fernaldella (Walsingham, 1882) (Cosmopteryx) 1496
59a0377 C. floridanella (Beutenmüller, 1889) (Cosmopteryx) 1497
nigrapunctella (Busck, 1900) (Cosmopteryx)
59a0378 C. facunda Hodges, 1962 (Cosmopterix) 1498
59a0379 C. callichalca (Meyrick, 1922) (Cosmopteryx) [NEW]
dicacula Hodges, 1962 (Cosmopterix) [1481]
59a0380 C. erinome Koster, 2010 (Cosmopterix) [NEW]
59a0381 C. teligera (Meyrick, 1915) (Cosmopteryx) [NEW]
abdita Hodges, 1962 (Cosmopterix) [1487]
59a0382 C. thelxinoe Koster, 2010 (Cosmopterix) [NEW]
lespedezae of authors; (not Walsingham, 1882) (Cosmopteryx) misid.

Genus PEBOPS Hodges, 1978
ID INFO: Koster (2010).
PEBOBS; Koster, 2010 missp.

59a0383 P. ipomoeae (Busck, 1900) (Cosmopteryx) 1499

Genus TANYGONA Braun, 1923

59a0384 T. lignicolorella Braun, 1923 (Tanygona) 1500

Genus ERALEA Hodges, 1962

59a0385 E. albalineella (Chambers, 1878) (Eriphia) 1501
striata Hodges, 1962 (Eralea)
59a0386 E. abludius Hodges, 1978 (Eralea) [NEW]
abludo; Hodges, 1983 (Eralea) missp. [1502]

Genus MELANOCINCLIS Hodges, 1962

59a0387 M. lineigera Hodges, 1962 (Melanocinclis) 1503
59a0388 M. nigrilineella (Chambers, 1878) (Eriphia) 1504
59a0389 M. sparsa Hodges, 1978 (Melanocinclis) 1505
59a0390 M. gnoma Hodges, 1978 (Melanocinclis) 1506
59a0391 M. vibex Hodges, 1978 (Melanocinclis) 1507

Genus ETEOBALEA Hodges, 1962
ID INFO (partial): Riedl (1966), Koster & Sinev (2003), Mitchell et al. (2005).
NOTE: All NA species previously placed in *Stagmatophora* Herrich-Schäffer, 1853 belong to *Eteobalea* (Sinev 2002b).
PARASTAGMATOPHORA Riedl, 1965

59a0392 E. sexnotella (Chambers, 1878) (Gelechia) 1508
59a0393 E. wyattella (Barnes & Busck, 1920) (Stagmatophora) 1509
59a0394 E. iridella (Busck, 1907) (Mompha) 1510
niphochrysa (Meyrick, 1930) (Stagmatophora)
59a0395 E. enchrysa Hodges, 1962 (Eteobalea) 1511
59a0396 E. intermediella (Riedl, 1966) (Stagmatophora) I [NEW]
NOTE: Introduced from Europe to control toadflax (*Linaria* spp.; Plantaginaceae); it may not be established in NA (Weeden et al. 2002).
59a0397 E. serratella (Treitschke, 1833) (Oecophora) I [NEW]
NOTE: Introduced from Europe to control toadflax (*Linaria* spp.; Plantaginaceae); it may not be established in NA (Weeden et al. 2002).
cinereocapitella (Caradja, 1920) (Oecophora)
sareptensis (Walsingham, 1907) (Stagmatophora)

Genus PYRODERCES Herrich-Schäffer, 1853
LALLIA Chrétien, 1915
TENUIPENNA Amsel, 1959

59a0397.5 P. albistrigella (Möschler, 1890) (Batrachedra) 1514

Genus ANATRACHYNTIS Meyrick, 1915
NOTE: Sinev (2002b) transferred the species *rileyi* and *badia* from *Pyroderces* to *Anatrachyntis*.
AMNERIS Riedl, 1993
EUAMNERIS Riedl, 1966
LACCIFEROPHAGA Zagulajev, 1959
SATHROBROTA Hodges, 1962

59a0398 A. rileyi (Walsingham, 1882) (Batrachedra) 1512
stigmatophora (Walsingham, 1897) (Batrachedra)
59a0399 A. badia (Hodges, 1962) (Sathrobrota) 1513
59a0399.1 A. simplex (Walsingham, 1891) (Pyroderces) I [NEW]
NOTE: This secondary pest of Pomegranate (*Punica granatum* L.; Lythraceae) and cotton bolls (*Gossypium* spp.; Malvaceae), originally from the Middle East and Mediterranean regions, has become established recently in FL and TX (contributed by JEH).
flexiloquella (Riedl, 1993) (Amneris)
gossypiella (Walsingham, 1906) (Stagmatophora)
hemizopha Meyrick, 1916 (Anatrachyntis)
repandatella (Legrand, 1966) (Pyroderces)

Genus LIMNAECIA Stainton, 1851
LIMNOECIA; Meyrick, 1895 missp.
LYMNAECIA; Dyar, [1903] missp.

59a0401 L. phragmitella Stainton, 1851 (Limnaecia) 1515

Genus TELADOMA Busck, 1932

59a0402 T. helianthi Busck, 1932 (Teladoma) 1516
59a0403 T. astigmatica (Meyrick, 1928) (Paratheta) 1517
59a0404 T. tonia Hodges, 1978 (Teladoma) 1518
59a0405 T. incana Hodges, 1962 (Teladoma) 1519
59a0406 T. murina Hodges, 1962 (Teladoma) 1520
59a0407 T. habra Hodges, 1978 (Teladoma) 1521
59a0408 T. nebula Hodges, 1978 (Teladoma) 1522
59a0409 T. exigua Hodges, 1978 (Teladoma) 1523

Genus TRICLONELLA Busck, [1901] 1900
ANORCOTA Meyrick, 1920
PHARMACOPTIS Meyrick, 1932

59a0410 T. pergandeella Busck, [1901] 1900 (Triclonella) 1524
59a0411 T. xuthocelis Hodges, 1962 (Triclonella) 1525
59a0412 T. antidectis (Meyrick, 1914) (Epicallima) 1526
59a0413 T. determinatella (Zeller, 1873) (Oecophora) 1527
australisella (Chambers, 1875) (Oecophora)
59a0414 T. bicoloripennis Hodges, 1962 (Triclonella) 1528

Genus ANONCIA Clarke, 1941

59a0415 A. conia (Walsingham, 1907) (Hypatopa) 1529
marinensis (Keifer, 1935) (Borkhausenia)
59a0416 A. brunneipes Hodges, 1962 (Anoncia) 1530
59a0417 A. sphacelina (Keifer, 1935) (Borkhausenia) 1531
59a0418 A. fasciata (Walsingham, 1907) (Hypatopa) 1532
59a0419 A. alboligula Hodges, 1962 (Anoncia) 1533
59a0420 A. slales Hodges, 1978 (Anoncia) 1534
59a0421 A. glacialis Hodges, 1962 (Anoncia) 1535
59a0422 A. bitoqua Hodges, 1978 (Anoncia) 1536
59a0423 A. porriginosa Hodges, 1962 (Anoncia) 1537
59a0424 A. flegax Hodges, 1978 (Anoncia) 1538
59a0425 A. aciculata (Meyrick, 1928) (Borkhausenia) 1539
59a0426 A. mones Hodges, 1978 (Anoncia) 1540
59a0427 A. naclia Hodges, 1978 (Anoncia) 1541
59a0428 A. callida Hodges, 1962 (Anoncia) 1542
59a0429 A. nocticola Hodges, 1962 (Anoncia) 1543
59a0430 A. nebritis Hodges, 1962 (Anoncia) 1544
59a0431 A. psepsa Hodges, 1978 (Anoncia) 1545
59a0432 A. leucoritis (Meyrick, 1927) (Borkhausenia) 1546
mentzeliae Clarke, 1942 (Anoncia)
59a0433 A. longa (Meyrick, 1927) (Borkhausenia) 1547
59a0434 A. furvicosta Hodges, 1962 (Anoncia) 1548
59a0435 A. diveni (Heinrich, 1921) (Borkhausenia) 1549
59a0436 A. orites (Walsingham, 1907) (Hypatopa) 1550
59a0437 A. fregeis Hodges, 1978 (Anoncia) 1551
59a0438 A. loexya Hodges, 1978 (Anoncia) 1552
59a0439 A. noscres Hodges, 1978 (Anoncia) 1553
59a0440 A. episcia (Walsingham, 1907) (Hypatopa) 1554
59a0441 A. venis Hodges, 1978 (Anoncia) 1555
59a0442 A. piperata Hodges, 1962 (Anoncia) 1556
59a0443 A. mosa Hodges, 1978 (Anoncia) 1557
59a0444 A. smogops Hodges, 1978 (Anoncia) 1558
59a0445 A. psentia Hodges, 1978 (Anoncia) 1559
59a0446 A. texanella (Chambers, 1878) (Elachista) [NEW]
NOTE: This species was moved from Elachistidae and placed here by Landry (1991b).

Genus CYPHACMA Meyrick, 1915
NOTE: This genus was described in Heliodinidae, and subsequently placed in the Schreckensteiniidae, Oecophoridae, or Stathmopodidae by various authors, before being placed in the Cosmopterigidae by Becker (1999).

59a0446.5 C. tragiae Braun, 1942 (Cyphacma) 1073

Subfamily ANTEQUERINAE Hodges, 1978

Genus ANTEQUERA Clarke, 1941

59a0447 A. acertella (Busck, 1913) (Semioscopis) 1466
exstimulata (Meyrick, 1928) (Borkhausenia)

Genus EUCLEMENSIA Grote, 1878
ID INFO: Hodges (1978); also Lee & Brown (2011).
HAMADRYAS Clemens, 1864 preocc.

59a0448 E. bassettella (Clemens, 1864) (Hamadryas) 1467
59a0450 E. barksdalensis Lee & Brown, 2011 (Euclemensia) [NEW]
59a0450.1 E. schwarziella Busck, [1901] 1900 (Euclemensia) 1468
NOTE: This species may be conspecific with *E. woodiella* (Curtis), described from Great Britain and long considered extinct. Ridout (2016) claims that a *Euclemensia* specimen photographed at Austin, TX in 2013 represents the long-lost *E. woodiella*, and that it may be conspecific with the Nearctic *E. schwarziella* (which Ridout misspelled "*schwartziella*"). If these assertions are indeed the case, then the name *E. woodiella* would have priority as it is the oldest name. However this matter is far from settled, so we do not treat *E. schwarziella* as a synonym of *E. woodiella*, pending further research.
schwartziella; Ridout, 2016 (Euclemensia) missp.

53. Family GELECHIIDAE Stainton, 1854 (twirler moths and allies)

by Sangmi Lee & Jean-François Landry

Gelechiid moths, in NA at least, are very small to small moths, with wingspans of 6 to 25 mm. The group is defined by the unique shape of the male gnathos. Most species are cryptically colored in shades of brown or grey. The forewing is often narrowly rounded or pointed at the apex, and the hindwing usually has a sinuous margin leading to an acute tip. Gelechiid larvae roll or mine leaves, bore in stems and roots, produce galls, or feed on seed heads or in dried seeds.

The higher-level taxonomy of the Gelechiidae has been the subject of several recent studies; the scheme employed here follows the genetic analysis by Karsholt et al. (2013). More recent genetic work by Heikkilä et al. (2014) and Sohn et al. (2016), based on more restricted intra-familial taxon sampling, were in general agreement with that scheme at the subfamily level, although they each found different relationships among the subfamilies. Pending a definitive higher taxonomic arrangement, we retain the subfamily sequence of Karsholt et al. (2013), which was used for a recent European checklist (Huemer & Karsholt 2020) and a DNA barcode library (Huemer et al. 2020) as well.

The family Gelechiidae is cosmopolitan and diverse, with about 4,700 described species. A total of 907 species are currently known in the Nearctic region, including one species that is considered extirpated. Significant taxonomic works have been published on the Dichomeridinae (Hodges 1986a) and on the genus *Chionodes* (Hodges 1999b), but overall the family is poorly known, and many species await discovery and description. A checklist of NA species was published by Lee et al. (2009), and the species-level nomenclature presented here is based on that list, except where newer works exist, as noted.

Subfamily ANACAMPSINAE Bruand, 1851

Tribe CHELARIINI Le Marchand, 1947

Genus NEOFACULTA Gozmány, 1955
HAPLOVALVA Janse, 1958
NOTE: Synonymy of *Haplovalva* by Park (2013).

59a0451.1 N. taigana Ponomarenko, 1998 (Neofaculta) H [NEW]
NOTE: New NA record. BOLD data indicate that records of *N. infernella* in NA are in fact *N. taigana*. "True" *N. infernella* is a Palaearctic species that does not occur in NA.
infernella of authors; (not Herrich-Schäffer, 1854) (Gelechia) misappl. *[2126]*

Genus PROSTOMEUS Busck, 1903

59a0452 P. brunneus Busck, 1903 (Prostomeus) 2256

Genus ANARSIA Zeller, 1839
ANANARSIA Amsel, 1959

59a0453 A. lineatella Zeller, 1839 (Anarsia) I 2257
NOTE: Introduced from Europe via Asia (Belton 1988; Smith 1994). Taxonomic status was clarified by Gregersen & Karsholt (2017).
ssp. a. lineatella Zeller, 1839 (Anarsia)
pruniella Clemens, 1860 (Anarsia)

Genus HYPATIMA Hübner, 1825
ALLOCOTA Meyrick, 1904
ALLOCOTANIANA Strand, 1913
CHELARIA Haworth, 1828
CYMATOMORPHA Meyrick, 1904
DEUTEROPTILA Meyrick, 1904
EPISACTA Turner, 1919
SEMODICTIS Meyrick, 1909
STOMYLIA Snellen, 1878
TITUACIA Walker, 1864

59a0454 H. zesticopa (Meyrick, 1929) (Chelaria) 2258

Tribe ANACAMPSINI Bruand, 1851

Genus LEUCOGONIELLA Fletcher, 1940
LEUCOGONIA Meyrick, 1929

59a0455 L. californica (Keifer, 1930) (Epithectis) 1848
59a0456 L. distincta (Keifer, 1935) (Leucogonia) 1849
59a0457 L. subsimella (Clemens, 1860) (Parasia) 1850

Genus APROAEREMA Durrant, 1897
HARPAGUS Stephens, 1834
LIXODESSA Gozmány, 1957
SCHUETZEIA Spuler, 1910
SYNCOPACMA Meyrick, 1925
NOTE: Synonymy of *Syncopacma* by Aarvik et al. (2017). As a result, NA species previously in *Syncopacma*: *adversa*, *crotolariella*, and *metadesma* are hereby transferred to *Aproaerema* (n. comb.). The two other NA *Aproaerema* species were previously listed as such by Pohl et al. (2018) without indication that the combinations were new. The remainder are formally indicated below.

59a0459 A. adversa (Braun, 1930) (Stomopteryx) N. COMB. 2218
59a0459.1 A. anthyllidella (Hübner, [1813]) (Tinea) H 2217
alfalfella Amsel, 1958 (Aproaerema)
aureliana Căpuşe, 1964 (Aproaerema)
brundini (Benander, 1945) (Monochroa)
caliginosella (Duponchel, 1843) (Lita)
elachistella (Stainton, 1859) (Gelechia)
infestella (Rebel, 1896) (Anacampsis)
lachtensis (Erschoff, 1877) (Gelechia)
natrixella (Weber, 1945) (Schuetzeia)
nigritella (Stainton, 1854) (Gelechia)
psoralella (Millière, 1865) (Gelechia)
sparsiciliella (Barrett, 1891) (Gelechia)
59a0460 A. crotolariella Busck, 1900 (Aproaerema) N. COMB. [NEW]
crotalariella; (Hodges, 1983) (Syncopacma) missp. *[2219]*
59a0461 A. metadesma (Meyrick, 1927) (Stomopteryx) N. COMB. 2220
59a0462 A. nigrella (Chambers, 1875) (Gelechia) 2221
59a0463 A. palpilineella (Chambers, 1875) (Gelechia) 2222

Genus UNTOMIA Busck, 1906

59a0464 U. albistrigella (Chambers, 1872) (Gelechia) 2223
59a0465 U. untomiella Busck, 1906 (Untomia) 2224

Genus BATTARISTIS Meyrick, 1914
DUVITA Busck, 1916

59a0466 B. concinnusella (Chambers, 1875) (Gelechia) [NEW]
concinnella; (Walsingham, 1911) (Untomia) missp.
concinnisela; (Chambers, 1877) (Gelechia) missp.
concinusella; (Chambers, 1878) (Gelechia) missp. *[2225]*
59a0467 B. cyclella (Busck, 1903) (Anacampsis) 2226
59a0468 B. nigratomella (Clemens, 1863) (Gelechia) 2227

apicilineella; (Chambers, 1878) (Gelechia) missp.
apicilinella (Clemens, 1863) (Gelechia)
apicistrigella; (Chambers, 1872) (Parasia) emend.

59a0469 B. pasadenae (Keifer, 1935) (Duvita) 2228
59a0470 B. vittella (Busck, 1916) (Duvita) 2229

Genus ANACAMPSIS Curtis, 1827
ID INFO (partial): Harrison & Berenbaum (2013b, 2014).
AGRIASTIS Meyrick, 1914
TACHYPTILIA Heinemann, 1870

59a0471 A. agrimoniella (Clemens, 1860) (Gelechia) 2230
aderusella; (Chambers, 1874) (Gelechia) missp.
aduncella (Zeller, 1868) (Gelechia)
59a0472 A. argyrothamniella Busck, 1900 (Anacampsis) 2231
59a0473 A. comparanda (Meyrick, 1929) (Compsolechia) 2232
59a0474 A. conclusella (Walker, 1864) (Gelechia) 2233
grissefasciella (Chambers, 1875) (Gelechia)
59a0475 A. consonella (Zeller, 1873) (Gelechia) [NEW]
ochreocostella (Chambers, 1878) (Gelechia)
quadrimaculella (Chambers, 1874) (Gelechia)
59a0476 A. coverdalella Kearfott, 1903 (Anacampsis) 2234
59a0477 A. fragariella Busck, 1904 (Anacampsis) 2235
59a0478 A. fullonella (Zeller, 1873) (Gelechia) 2236
bidiscomaculella (Chambers, 1874) (Gelechia) *[2273]*
NOTE: Synonymy by Hodges (1986).
rubescens (Walsingham, 1881) (Menesta)
rufusella (Chambers, 1874) (Gelechia)
subruberella (Chambers, 1874) (Gelechia)
59a0479 A. innocuella (Zeller, 1873) (Gelechia) 2237
59a0480 A. kearfottella (Busck, 1903) (Aproaerema) 2238
59a0481 A. lacteusochrella (Chambers, 1875) (Gelechia) 2239
59a0482 A. lagunculariella Busck, 1900 (Anacampsis) 2240
59a0483 A. levipedella (Clemens, 1863) (Strobisia) 2241
59a0484 A. lupinella Busck, 1901 (Anacampsis) 2242
59a0485 A. niveopulvella (Chambers, 1875) (Gelechia) 2243
59a0486 A. nonstrigella Busck, 1906 (Anacampsis) 2244
59a0487 A. paltodoriella Busck, 1903 (Anacampsis) 2245
59a0488 A. populella (Clerck, 1759) (Phalaena) I 2246
NOTE: Introduced from Europe (Rose & Lindquist 1997).
ambronella Meder, 1934 (Anacampsis)
boeberana (Fabricius, 1787) (Pyralis)
ceballosi Agenjo, 1959 (Anacampsis)
fuscatella Bentinck, 1934 (Anacampsis)
laticinctella Stephens, 1834 (Anacampsis)
lugens (Caradja, 1920) (Tachyptilia)
populi (Haworth, 1828) (Recurvaria)
sachalinensis (Matsumura, 1931) (Tachyptilia)
tremella ([Denis & Schiffermüller], 1775) (Tinea)
tremulella Duponchel, 1839 (Anacampsis)
59a0489 A. psoraliella Barnes & Busck, 1920 (Anacampsis) 2247
59a0490 A. rhoifructella (Clemens, 1860) (Gelechia) 2248
59a0491 A. sacramenta Keifer, 1933 (Anacampsis) 2249
59a0492 A. tephriasella (Chambers, 1872) (Gelechia) 2250
59a0493E A. triangularis Braun, 1923 (Anacampsis) EXCL. [NEW]
NOTE: This species was described from "Angeles Bay, Lower California", which is in Baja California, Mexico. It has been mistakenly reported as being described from CA, but it is not known to occur north of the Mexican border.
59a0494 A. tristrigella (Walsingham, 1882) (Gelechia) 2251
59a0495 A. wikeri Harrison, 2013 (Anacampsis) [NEW]

Genus STROBISIA Clemens, 1860
SYSTASIOTA Walsingham, 1910

59a0496 S. iridipennella Clemens, 1860 (Strobisia) 2253
aphroditeella Chambers, 1872 (Strobisia)
aphroditella; Busck, [1903] (Strobisia) missp.
iripennella; Chambers, 1878 (Strobisia) missp.
irridipennella; Busck, [1903] (Strobisia) missp.
59a0497 S. proserpinella Frey & Boll, 1878 (Strobisia) 2254

Genus COMPSOLECHIA Meyrick, 1918

59a0498 C. crescentifasciella (Chambers, 1874) (Gelechia) 2252

Genus HOLOPHYSIS Walsingham, 1910
HOPLOPHYSIS; McDunnough, 1939 missp.

59a0499 H. emblemella (Clemens, 1860) (Strobisia) 2255
venustella (Chambers, 1872) (Strobisia)
NOTE: This synonym, described from KY, was inadvertently omitted by Hodges (in Hodges et al. 1983).

Genus MESOPHLEPS Hübner, 1825
ID INFO: Li & Sattler (2012).
BRACHYACMA Meyrick, 1886
BUCOLARCHA Meyrick, 1929
CHRETIENIA Spuler, 1910
CROSSOBELA Meyrick, 1923
GNOSIMACHA Meyrick, 1927
LATHONTOGENES Walsingham, 1897
LATHONTOGENUS; Hodges, 1983 missp.
LIPATIA Busck, 1910
PARASPISTES Meyrick, 1905
STIPHROSTOLA Meyrick, 1923
UNCOSTRIDONTA; Park, 1990 missp.
UNCUSTRIODONTA Agenjo, 1952
XEROMETRA Meyrick, 1925

59a0500 M. adustipennis (Walsingham, 1897) (Lathontogenus) I [NEW]
NOTE: This species was described from the West Indies. It was probably introduced from Africa (Li & Sattler 2012). It has traditionally been referred to in NA as *M. palpigera*, an Old World name.
crotalariella (Busck, 1910) (Lipatia)
palpigera of authors; (not Walsingham, 1891) (Gelechia) misappl. *[2272]*

Subfamily DICHOMERIDINAE Hampson, 1918
ID INFO: Hodges (1986).

Genus HELCYSTOGRAMMA Zeller, 1877
ANATHYROSTRIS Meyrick, 1939
CERATOPHORA Heinemann, 1870
PARALECTRA Meyrick, 1925
PARELECTROIDES Clarke, 1932
PSAMATHOSCOPA Meyrick, 1937
SCHEMATASPIS Meyrick, 1918
TEUCHOPHANES Meyrick, 1914

59a0501 H. fernaldella (Busck, 1903) (Trichotaphe) 2267
59a0502 H. casca (Braun, 1925) (Brachmia) 2264
59a0503 H. badia (Braun, 1921) (Brachmia) 2263
59a0504 H. melantherella (Busck, 1900) (Trichotaphe) 2270
59a0505 H. hystricella (Braun, 1921) (Brachmia) 2268
59a0506 H. melanocarpa (Meyrick, 1929) (Brachmia) 2269
trimaculella (Chambers, 1874) (Gelechia) preocc. *[2271]*
59a0507 H. ectopon Hodges, 1986 (Helcystogramma) [NEW]
59a0508 H. chambersella (Murtfeldt, 1874) (Gelechia) 2265
inaequepulvella (Chambers, 1875) (Gelechia)
parvipulvella (Chambers, 1874) (Gelechia) *[1959]*
subalbella; (Meyrick, 1925) (Brachmia) emend.
subalbusella (Chambers, 1874) (Gelechia)
59a0509 H. convolvuli (Walsingham, 1908) (Trichotaphe) I [NEW]
NOTE: Introduced from the Old World tropics to FL (Hodges 1986).
crypsilychna (Meyrick, 1914) (Brachmia)
dryadopa (Meyrick, 1918) (Brachmia)
effera (Meyrick, 1918) (Lecithocera)
emigrans (Meyrick, 1921) (Lecithocera)

Genus DICHOMERIS Hübner, 1818
NOTE: *Acanthophila* Heinemann, 1870 was included as a synonym of *Dichomeris* by Hodges (1986) but is considered by several authors (Ponomarenko 1992, 1997a, b, 1999; Elsner et al. 1999; Ponomarenko & Omelko 2003) to constitute a separate (extralimital) genus in the Dichomeridinae.
ACRIBOLOGA Meyrick, 1923
AGELIARCHIS Meyrick, 1923
ANORTHOSIA Clemens, 1860
APHNOGENES Meyrick, 1921
AROTRIA Meyrick, 1904
ATASTHALISTIS Meyrick, 1886
BEGOE Chambers, 1872
BROCHOMETIS Meyrick, 1923
CARBATINA Meyrick, 1913
CARNA Walker, 1864
CATELAPHRIS Meyrick, 1925
CATOPTRISTIS Meyrick, 1925
CERYCANGELA Meyrick, 1925
CHTHONOGENES Meyrick, 1938

COTYLOSCIA Meyrick, 1923
CROESOPOLA Meyrick, 1904
CYMATOPLEX Meyrick, 1925
CYMATOPLICELLA Fletcher, 1940
CYMOTRICHA Meyrick, 1923
DAEMONARCHA Meyrick, 1918
DEIMNESTRA Meyrick, 1918
DELTOLOPHOS Janse, 1960
DESMOPHYLAX Meyrick, 1935
ELASMION Hübner, 1808
EPICHARTA Meyrick, 1926
EPICORTHYLIS Zeller, 1873
EPORGASTIS Meyrick, 1921
EREBOSCAEAS Meyrick, 1937
EUPOLELLA Fletcher, 1940
EUPOLIS Meyrick, 1923
EURYSARA Turner, 1919
EURYZANCLA Turner, 1919
GAESA Walker, 1864
GOMPHOCRATES Meyrick, 1925
HOLAXYRA Meyrick, 1913
HYLOGRAPTIS Meyrick, 1910
HYPELICTIS Meyrick, 1905
ILINGIOTIS Meyrick, 1914
IOCHARES Meyrick, 1921
LEUROPALPA Janse, 1960
MACHLOTRICHA Meyrick, 1912
MACROZANCLA Turner, 1919
MALACOTRICHA Zeller, 1873
MIMOMERIS Povolný, 1978
MUSURGA Meyrick, 1923
MYROPHILA Meyrick, 1923
MYTHOGRAPHA Meyrick, 1923
NEOCHRISTA Meyrick, 1923
NEOPACHNISTIS Janse, 1954
NOEZA Walker, 1866
ORSODYTIS Meyrick, 1926
OXYBELIA Hübner, [1825]
OXYSACTIS Meyrick, 1923
PACHYSARIS Meyrick, 1914
PAPPOPHORUS Walsingham, 1897
PARABRACHMIA Janse, 1960
PARANOEA Walsingham, 1911
PARISTHMIA Meyrick, 1909
PICROPTERA Janse, 1960
PLOCAMOSARIS Meyrick, 1912
PRASODRYAS Meyrick, 1926
PROPHORAULA Meyrick, 1922
RHADINOPHYLLA Turner, 1919
RHINOSIA Treitschke, 1833
RHOBONDA Walker, 1864
RHYNCHOTONA Meyrick, 1923
SAGARITIS Chambers, 1872
SATHROGENES Meyrick, 1923
SCHEMATISTIS Meyrick, 1911
SEMIOMERIS Meyrick, 1923
SIROGENES Meyrick, 1923
TAPHROSARIS Meyrick, 1922
THELYASCETA Meyrick, 1923
THYRSOMNESTIS Meyrick, 1929
TOCMIA Walker, 1864
TRICHOTAPHE Clemens, 1860
ULIARIA Dumont, 1921
VAZUGADA Walker, 1864
XENORRHYTHMA Meyrick, 1926
ZALITHIA Meyrick, 1894
ZOMEUTIS Meyrick, 1913

Dichomeris ligulella group Hodges, 1986

59a0510 D. ligulella Hübner, 1818 (Dichomeris) 2281
NOTE: This species, described from GA (USA), was incorrectly listed as being introduced by Pohl et al. (2018).
contubernalellus (Fitch, 1853) (Chaetochilus)
flavivittellus (Clemens, 1864) (Ypsolophus)
malifoliellus (Fitch, 1856) (Chaetochilus)
paucigutellus (Clemens, 1863) (Ypsolophus)
pometella (Harris, 1853) (Rhinosia)
quercipominella (Chambers, 1872) (Ypsolophus)
reedella (Chambers, 1872) (Ypsolophus)
ruderella; (Chambers, 1878) (Ypsolophus) missp.
59a0511 D. gausapa Hodges, 1986 (Dichomeris) [NEW]

Dichomeris acuminata group Hodges, 1986

59a0512 D. acuminatus (Staudinger, 1876) (Mesophleps)C/I[NEW]
NOTE: This pantropical species was first collected in NA in FL, in 1952 (Hodges 1986).
ammoxanthus (Meyrick, 1904) (Ypsolophus)
ianthes (Meyrick, 1887) (Hypsolophus)
lotellus (Constant, 1893) (Ypsolophus)
ochrophanes (Meyrick, 1907) (Ypsolophus)
rusticus (Walsingham, 1892) (Ypsolophus) [2284]
59a0513 D. nenia Hodges, 1986 (Dichomeris) [NEW]

Dichomeris condaliavorella group Hodges, 1986

59a0514 D. condaliavorella (Busck, 1900) (Trichotaphe) 2275

Dichomeris citrifoliella group Hodges, 1986

59a0515 D. blanchardorum Hodges, 1986 (Dichomeris) [NEW]
59a0516 D. citrifoliella (Chambers, 1880) (Nothris) 2292

Dichomeris marginella group Hodges, 1986

59a0517 D. marginella (Fabricius, 1781) (Alucita) I 2282
NOTE: Introduced from Europe separately to eastern and western NA. It was first found in NY in 1910, and in CA in the 1920s (Hodges 1986).
clarella (Treitschke, 1833) (Palpula)
fimbriella (Thunberg, 1788) (Tinea)
striatella (Hübner, 1796) (Tinea)

Dichomeris solatrix group Hodges, 1986

59a0518 D. solatrix Hodges, 1986 (Dichomeris) [NEW]

Dichomeris hypochloa group Hodges, 1986

59a0519 D. hypochloa Walsingham, 1911 (Dichomeris) 2280

Dichomeris punctipennella group Hodges, 1986

59a0520 D. punctipennella (Clemens, 1860) (Anorthosia) 2288
gracilella (Chambers, 1872) (Sagaritis)

Dichomeris punctidiscellus group Hodges, 1986

59a0521 D. punctidiscellus (Clemens, 1863) (Ypsolophus) 2283
stramineella; (Chambers, 1878) (Ypsolophus) missp.
straminiella (Chambers, 1872) (Ypsolophus)
suffusella (Chambers, 1874) (Anarsia) [2285]
59a0522 D. diva Hodges, 1986 (Dichomeris) [NEW]
59a0523 D. sylphe Hodges, 1986 (Dichomeris) [NEW]
59a0524 D. empusa Hodges, 1986 (Dichomeris) [NEW]

Dichomeris hirculella group Hodges, 1986

59a0525 D. hirculella Busck, 1909 (Dichomeris) 2279
59a0526 D. caia Hodges, 1986 (Dichomeris) [NEW]
59a0527 D. ardelia Hodges, 1986 (Dichomeris) [NEW]

Dichomeris siren group Hodges, 1986

59a0528 D. siren Hodges, 1986 (Dichomeris) [NEW]

Dichomeris flavocostella group Hodges, 1986

59a0529 D. flavocostella (Clemens, 1860) (Gelechia) 2295
59a0530 D. fistuca Hodges, 1986 (Dichomeris) [NEW]

Dichomeris inversella group Hodges, 1986

59a0531 D. inversella (Zeller, 1873) (Epicorthylis) 2310
59a0532 D. kimballi Hodges, 1986 (Dichomeris) [NEW]

Dichomeris ventrella group Hodges, 1986

59a0533 D. ventrellus (Fitch, 1854) (Chaetochilus) 2287
querciella (Chambers, 1872) (Ypsolophus)
roseocostellus (Walsingham, 1882) (Ypsolophus)
trinotella (Coquillett, 1883) (Nothris)
unicipunctellus (Clemens, 1863) (Ypsolophus)

59a0534 D. georgiella (Walker, 1866) (Depressaria) 2277
bimaculella (Chambers, 1877) (Nothris)
caryaefoliella (Chambers, 1872) (Ypsolophus)
mollis Barnes & Busck, 1920 (Dichomeris)
59a0535 D. vacciniella Busck, 1915 (Dichomeris) 2286
nephanthes (Meyrick, 1929) (Nothris)
59a0536 D. bipunctellus (Walsingham, 1882) (Ypsolophus) 2274

Dichomeris setosella group Hodges, 1986

59a0537 D. setosella (Clemens, 1860) (Trichotaphe) 2302
costolutella (Chambers, 1872) (Begoe)
dolabella (Zeller, 1873) (Nothris)
eupatoriella (Chambers, 1872) (Ypsolophus)
eupatoriiella; (Chambers, 1878) (Nothris) missp.
59a0538 D. vindex Hodges, 1986 (Dichomeris) [NEW]
59a0539 D. mulsa Hodges, 1986 (Dichomeris) [NEW]
59a0540 D. mica Hodges, 1986 (Dichomeris) [NEW]
59a0541 D. aglaia Hodges, 1986 (Dichomeris) [NEW]
59a0542 D. delotella Busck, 1909 (Dichomeris) 2294
mexicana Walsingham, 1911 (Dichomeris)
59a0543 D. gleba Hodges, 1986 (Dichomeris) [NEW]
59a0544 D. alphito Hodges, 1986 (Dichomeris) [NEW]
59a0545 D. laetitia Hodges, 1986 (Dichomeris) [NEW]
59a0546 D. stipendiaria (Braun, 1925) (Trichotaphe) [NEW]
stipendaria; (Hodges, 1983) (Trichotaphe) missp. *[2304]*
59a0547 D. bilobella (Zeller, 1873) (Gelechia) 2291
59a0548 D. aleatrix Hodges, 1986 (Dichomeris) [NEW]
59a0549 D. copa Hodges, 1986 (Dichomeris) [NEW]
59a0550 D. scrutaria Hodges, 1986 (Dichomeris) [NEW]
59a0551 D. furia Hodges, 1986 (Dichomeris) [NEW]
59a0552 D. purpureofusca (Walsingham, 1882) (Gelechia) 2308
59a0553 D. nonstrigella (Chambers, 1878) (Dasycera) 2307
59a0554 D. ochripalpella (Zeller, 1873) (Gelechia) [NEW]
alacella (Clemens, 1862) (Trichotaphe) preocc. *[2289]*
goodellella (Chambers, 1881) (Gelechia)
59a0555 D. achne Hodges, 1986 (Dichomeris) [NEW]
59a0556 D. inserrata (Walsingham, 1882) (Gelechia) 2297
59a0557 D. pelta Hodges, 1986 (Dichomeris) [NEW]
59a0558 D. bolize Hodges, 1986 (Dichomeris) [NEW]
59a0559 D. legnotoa Hodges, 1986 (Dichomeris) [NEW]
59a0560 D. illusio Hodges, 1986 (Dichomeris) [NEW]
59a0561 D. mimesis Hodges, 1986 (Dichomeris) [NEW]
59a0562 D. serrativittella (Zeller, 1873) (Gelechia) 2301
plutella (Chambers, 1874) (Gelechia)
59a0563 D. xanthoa Hodges, 1986 (Dichomeris) [NEW]
59a0564 D. isa Hodges, 1986 (Dichomeris) [NEW]
59a0565 D. simulata Hodges, 1986 (Dichomeris) [NEW]
59a0566 D. imitata Hodges, 1986 (Dichomeris) [NEW]
59a0567 D. barnesiella (Busck, 1907) (Trichotaphe) 2290
59a0568 D. simpliciella (Busck, 1904) (Trichotaphe) 2303
hemiclina (Meyrick, 1929) (Trichotaphe)
59a0569 D. baxa Hodges, 1986 (Dichomeris) [NEW]
59a0570 D. gnoma Hodges, 1986 (Dichomeris) [NEW]
59a0571 D. washingtoniella (Busck, 1906) (Trichotaphe) 2306
59a0572 D. levisella (Fyles, 1904) (Trichotaphe) 2300
59a0573 D. leuconotella (Busck, 1904) (Trichotaphe) 2299
59a0574 D. mercatrix Hodges, 1986 (Dichomeris) [NEW]
59a0575 D. euprepes Hodges, 1986 (Dichomeris) [NEW]
59a0576 D. juncidella (Clemens, 1860) (Trichotaphe) 2298
dubitella (Chambers, 1872) (Depressaria)
pallipalpis (Walker, 1864) (Gelechia)

Dichomeris glenni group Hodges, 1986

59a0577 D. glenni Clarke, 1947 (Dichomeris) 2278

Dichomeris costarufoella group Hodges, 1986

59a0578 D. costarufoella (Chambers, 1874) (Gelechia) 2293
costarufeoella; Poole, 1996 (Dichomeris) missp.
costirufella; (Meyrick, 1925) (Trichotaphe) emend.
59a0579 D. agonia Hodges, 1986 (Dichomeris) [NEW]
trinotella (Busck, 1906) (Trichotaphe) preocc. *[2305]*
59a0580 D. offula Hodges, 1986 (Dichomeris) [NEW]
59a0581 D. crepida Hodges, 1986 (Dichomeris) [NEW]

Dichomeris oceanis group Park & Hodges, 1995

59a0582 D. heriguronis (Matsumura, 1931) (Nothris) I [NEW]
NOTE: Introduced to NA (probably to NY or NJ) from Japan, first found in NA in 1932. It has been widely reported under the name *D. picrocarpa* (including by Hodges 1986), which Ponomarenko (2004) determined to be a misidentification of *D. heriguronis*. The species described as *iothalles* by Forbes is *heriguronis*. *D. picrocarpa* does not occur in NA; so far it is known only from India and belongs to a different species group. *D. heriguronis* was treated as a synonym of *oceanis* Meyrick, 1920, by Park & Hodges (1995) and included in the *oceanis* group; its original range is in Japan, Korea, China and the Russian Far East. Ponomarenko (2004) determined that *heriguronis* and *oceanis* are distinct (though related) species and rectified the synonymy.
iothalles (Forbes, 1939) (Trichotaphe)
oceanis of authors; not Meyrick, 1920 (Dichomeris) misappl.
picrocarpa of authors; (not Meyrick, 1913) (Carbatina) misid. *[2309]*

Dichomeris sybilla group Hodges, 1986

59a0583 D. sybilla Hodges, 1986 (Dichomeris) [NEW]

Genus SCODES Hodges, 1986

59a0584 S. deflecta (Busck, 1909) (Dichomeris) 2276

Subfamily APATETRINAE Meyrick, 1947

Tribe APATETRINI Meyrick, 1947

Genus CHRYSOESTHIA Hübner, 1825
ANAPHAULA Walsingham, 1904
CHRYSIA Bruand, 1850
CHRYSOPORA Clemens, 1860
GUEBLA Chrétien, 1915
MICROSETIA Stephens, 1829
NANNODIA Heinemann, 1870
NOMIA Clemens, 1860

59a0585 C. drurella (Fabricius, 1775) (Tinea) I 1717
NOTE: Introduced from Europe.
hermanella; ([various, no date]) (Chrysopora) missp.
hermannella of authors; (not Fabricius, 1781) (Tinea) misappl.
NOTE: The correct spelling of this Old World species is *hermannella*. It has been misspelled as "*hermanella*" by some authors. It was listed by Hodges (in Hodges et al. 1983) and Lee et al. (2009) as a misidentification of *C. drurella*, as well as of *C. lingulacella*.
hierochloae (Stainton, 1870) (Cosmopteryx)
myllerella (Fabricius, 1794) (Pyralis)
orichalcea (Stainton, 1861) (Cosmopteryx)
orichalciella (Morris, 1870) (Cosmopteryx)
zinckeella (Hübner, 1813) (Tinea)
59a0586 C. lingulacella (Clemens, 1860) (Nomia) 1718
arminiella (Frey & Boll, 1878) (Gelechia)
59a0587 C. sexguttella (Thunberg, 1794) (Tinea) I 1719
NOTE: Introduced from Europe.
aurifasciella (Stephens, 1834) (Microsetia)
auropunctella (Thunberg, 1794) (Tinea)
naeviferella (Duponchel, 1843) (Lita)
stipivicinella (Bruand, 1859) (Gelechia)
59a0588 C. versicolorella (Kearfott, 1908) (Chrysopora) 1720

Tribe PEXICOPIINI Hodges, 1986

Genus EPILECHIA Busck, 1939

59a0589 E. catalinella (Busck, 1907) (Gelechia) 2259
tehuacana (Busck, 1913) (Gelechia)

Genus PECTINOPHORA Busck, 1917


a0590X P. gossypiella (Saunders, 1844) (Gelechia)
EXTIRPATED I 2261
NOTE: Introduced, originally from India. This species was declared eradicated from the USA by the United States Department of Agriculture in 2018.
umbripennis (Swinhoe, 1885) (Gelechia)

Genus PLATYEDRA Meyrick, 1895
ID INFO: Powell et al. (2001).

59a0591 P. subcinerea (Haworth, 1828) (Recurvaria) I 2262
NOTE: Introduced to eastern NA from Europe; now present in CA as well (Powell et al. 2001).

bathrosticta (Meyrick, 1936) (Gelechia)
parviocellatella (Bruand, 1850) (Anacampsis)
vilella (Zeller, 1847) (Gelechia)

Genus SITOTROGA Heinemann, 1870
NESOLECHIA Meyrick, 1921
SYNGENOMICTIS Meyrick, 1927

59a0592 S. cerealella (Olivier, 1789) (Alucita) C/I 2260
aenictopa (Meyrick, 1927) (Syngenomictis)
arctella (Walker, 1864) (Gelechia)
asemodes (Meyrick, 1938) (Chelaria)
hordei (Kirby, 1815) (Tinea)
melanarthra (Lower, 1900) (Gelechia)
ochrescens (Meyrick, 1938) (Aristotelia)
palearis (Meyrick, 1913) (Epithectis)

Subfamily THIOTRICHINAE Karsholt, Mutanen, Lee & Kaila, 2013

Genus THIOTRICHA Meyrick, 1885
MISTAX Caradja, 1920
MYSTAX Caradja, 1920
REUTTIA Hofmann, 1898

59a0592.5 T. sciurella (Walsingham, 1897) (Polyhymno) [NEW]
NOTE: This species, previously known from Mexico and Central America, is added herein to the NA fauna based on recent FL records by JEH.
argoxantha Meyrick, 1914 (Thiotricha)

Genus POLYHYMNO Chambers, 1874
COPOCERCIA Zeller, 1877
PLECTROCOSMA Meyrick, 1921

59a0593 P. acaciella Busck, [1901] 1900 (Polyhymno) 2210
59a0594 P. luteostrigella Chambers, 1874 (Polyhymno) 2211
fuscostrigella Chambers, 1876 (Polyhymno)

Genus CALLIPRORA Meyrick, 1914
ID INFO: Lee & Hayden (2019).

59a0594.5 C. sexstrigella (Chambers, 1874) (Polyhymno) 2212
thermogramma Meyrick, 1929 (Calliprora)
59a0594.6 C. leucaenae Lee & Hayden, 2019 (Calliprora) [NEW]

Subfamily ANOMOLOGINAE Meyrick, 1926

Genus NEALYDA Dietz, 1900

59a0595 N. bifidella Dietz, 1900 (Nealyda) 1681
59a0596 N. kinzelella Busck, 1900 (Nealyda) 1682
59a0597 N. phytolaccae Clarke, 1946 (Nealyda) 1683
59a0598 N. pisoniae Busck, 1900 (Nealyda) 1684

Genus METZNERIA Zeller, 1839
ID INFO: Englert (1974).
ARCHIMETZNERIA Amsel, 1936
CLEODORA Stephens, 1834
PARASIA Duponchel, 1846

59a0599 M. paucipunctella Zeller, 1839 (Metzneria) I 1686
NOTE: This European species was released in NA for biocontrol of knapweed (*Centaurea* spp.; Asteraceae) (Weeden et al. 2002; Winston et al. 2014). It is established at least in BC.
confusalis Lucas, 1956 (Metzneria)
luqueti Nel, 1995 (Metzneria)
zimmermanni (Hering, 1941) (Gelechia)
59a0600 M. lappella (Linnaeus, 1758) (Phalaena) I 1685
NOTE: Introduced from Europe to NA (Englert 1974).

Genus ISOPHRICTIS Meyrick, 1917

59a0602 I. actiella Barnes & Busck, 1920 (Isophrictis) 1688
59a0603 I. actinopa Meyrick, 1929 (Isophrictis) 1689
59a0604 I. anteliella (Busck, 1903) (Paltodora) 1690
59a0605 I. canicostella (Walsingham, 1888) (Cleodora) 1691
59a0606 I. cilialineella (Chambers, 1874) (Gelechia) 1692
59a0607 I. dietziella (Busck, 1903) (Paltodora) 1693
dietriella; (Busck, 1907) (Paltodora) missp.
59a0608 I. magnella (Busck, 1903) (Paltodora) 1694
59a0609 I. modesta (Walsingham, 1888) (Cleodora) 1695
59a0610 I. occidentalis Braun, 1925 (Isophrictis) 1696
59a0611 I. pallidastrigella (Chambers, 1874) (Cleodora) 1697
pallidestrigella; (Chambers, 1878) (Cleodora) missp.
pallidistrigella; (Walsingham, 1888) (Cleodora) missp.
59a0612 I. pallidella (Chambers, 1874) (Cleodora) 1698
59a0613 I. pennella (Busck, 1907) (Paltodora) 1699
59a0614 I. rudbeckiella Bottimer, 1926 (Isophrictis) 1700
denotata Bottimer, 1926 (Isophrictis)
59a0615 I. sabulella (Walsingham, 1888) (Cleodora) 1701
59a0616 I. similiella (Chambers, 1872) (Gelechia) 1702
piscipalis; (Chambers, 1878) (Gelechia) missp.
piscipellis (Zeller, 1873) (Gelechia)
similella; (Meyrick, 1926) (Gelechia) missp.
solaniella; (Chambers, 1875) (Gelechia) missp.
solaniiella (Chambers, 1873) (Gelechia)
59a0617 I. striatella ([Denis & Schiffermüller], 1775) (Tinea) H/I 1703
ssp. a. striatella ([Denis & Schiffermüller], 1775) (Tinea)
tanacetella (Schrank, 1802) (Tinea)
59a0618 I. tophella (Walsingham, 1888) (Cleodora) 1704
59a0619 I. trimaculella (Chambers, 1874) (Anarsia) 1705
touceyella (Busck, 1903) (Ypsolophus)

Genus MONOCHROA Heinemann, 1870
CATABRACHMIA Rebel, 1909
PALTODORA Meyrick, 1894

59a0620 M. absconditella (Walker, 1864) (Gelechia) 1706
palpiannulella (Chambers, 1872) (Gelechia)
palpianulella; (Chambers, 1878) (Gelechia) missp.
59a0621 M. angustipennella (Clemens, 1863) (Gelechia) 1707
kearfottella (Busck, 1903) (Aristotelia)
59a0622 M. disconotella (Chambers, 1878) (Gelechia) 1708
59a0623 M. discriminata (Meyrick, 1923) (Aristotelia) 1709
59a0624 M. fragariae (Busck, 1919) (Aristotelia) 1711
59a0625 M. gilvolinella (Clemens, 1863) (Gelechia) 1710
gilvolineella; (Chambers, 1878) (Gelechia) missp.
59a0626 M. harrisonella (Busck, 1904) (Aristotelia) 1712
59a0627 M. monactis (Meyrick, 1923) (Aristotelia) 1713
59a0628 M. perterrita (Meyrick, 1923) (Aristotelia) 1714
59a0629 M. placidella (Zeller, 1874) (Gelechia) 1715
natalella (Busck, 1904) (Aristotelia)
59a0629.1 M. plutella (Chambers, 1874) (Neda) N. COMB. 1687
NOTE: This species was placed in *Megacraspedus* Zeller, 1839 by Hodges (in Hodges et al. 1983) and in Lee et al. (2009). Recent study of specimens by SL in consultation with Ole Karsholt indicates they belong in *Monochroa* (n. comb.).
59a0630 M. pullusella (Chambers, 1874) (Gelechia) 1757
minimella (Chambers, 1874) (Gelechia)
59a0631 M. quinquepunctella (Busck, 1903) (Aristotelia) 1716
59a0632 M. robusta (Braun, 1921) (Aristotelia) 1760

Genus PTYCERATA Ely, 1910

59a0633 P. busckella Ely, 1910 (Ptycerata) 2044

Genus ENCHRYSA Zeller, 1873

59a0634 E. dissectella Zeller, 1873 (Enchrysa) 1721
youngella (Kearfott, 1905) (Aristotelia)

Genus THEISOA Chambers, 1874
CACELICE Busck, 1902
HELICE Chambers, 1873

59a0635 T. constrictella (Zeller, 1873) (Oecophora) 1722
bifasciella Chambers, 1874 (Theisoa)
59a0636 T. multifasciella Chambers, 1875 (Theisoa) 1723
59a0637 T. pallidochrella (Chambers, 1873) (Helice) 1724
gleditschiaeella (Chambers, 1878) (Gelechia)
permolestella (Busck, 1902) (Cacelice)

Genus STEREOMITA Braun, 1922

59a0638 S. andropogonis Braun, 1922 (Stereomita) 1725

Genus ARISTOTELIA Hübner, 1825
ID INFO (partial): Lee & Brown (2022).
ERGATIS Heinemann, 1870
EUCATOPTUS Walsingham, 1897
ISOCHASTA Meyrick, 1886
TOSCHASTA Meyrick, 1885

59a0639 A. adceanotha Keifer, 1935 (Aristotelia) 1726
59a0640 A. adenostomae Keifer, 1933 (Aristotelia) 1727
59a0641 A. amelanchierella Braun, 1925 (Aristotelia) 1728
59a0642 A. aquosa Meyrick, 1925 (Aristotelia) 1729
suffusella (Chambers, 1872) (Gelechia)
59a0642.1 A. arenella Lee, 2022 (Aristotelia) [NEW]
59a0643 A. argentifera Busck, 1903 (Aristotelia) 1730
59a0644 A. bifasciella Busck, 1903 (Aristotelia) 1731
59a0645 A. calens Meyrick, 1923 (Aristotelia) [NEW]
callens; Hodges, 1983 (Aristotelia) missp. *[1732]*
59a0646 A. callirrhoda Meyrick, 1923 (Aristotelia) [NEW]
callirhoda; Hodges, 1983 (Aristotelia) missp. *[1733]*
59a0647 A. corallina Walsingham, 1909 (Aristotelia) UNVER. [NEW]
NOTE: This species was reported from FL as early as Kimball (1965), and it was formally added to the NA fauna by Lee et al. (2009). However, the true identity of NA populations is uncertain. Many specimens from north of Mexico identified as "*A. corallina*" in BOLD appear to represent several cryptic species. It is unclear which, if any, refer to "true" *corallina*, which was described from southern Mexico.
59a0648 A. devexella Braun, 1925 (Aristotelia) 1734
59a0649 A. eldorada Keifer, 1936 (Aristotelia) 1735
eldorado; McDunnough, 1939 (Aristotelia) missp.
59a0650 A. elegantella (Chambers, 1874) (Gelechia) 1736
superbella (Chambers, 1875) (Gelechia)
59a0651 A. eumeris Meyrick, 1923 (Aristotelia) 1737
59a0651.1 A. eupatoriella Busck, [1934] (Aristotelia) [NEW]
NOTE: This species, previously known from Cuba and Central America, is reported here as new to NA (FL) based on records by JEH.
59a0652 A. fungivorella (Clemens, 1864) (Gelechia) 1738
59a0653 A. hexacopa Meyrick, 1929 (Aristotelia) 1739
59a0654 A. howardi Walsingham, 1909 (Aristotelia) [NEW]
NOTE: Added to the NA fauna by Lee et al. (2009) without further details. This species was described from Mexico (Sonora).
59a0655 A. iospora Meyrick, 1929 (Aristotelia) 1741
59a0656 A. isopelta Meyrick, 1929 (Aristotelia) 1742
nigrobasiella Clarke, 1932 (Aristotelia) *[1749]*
59a0657 A. ivae Busck, 1900 (Aristotelia) 1743
59a0658 A. lespedezae Braun, 1930 (Aristotelia) 1744
59a0659 A. lindanella Barnes & Busck, 1920 (Aristotelia) 1745
59a0660 A. melanaphra Meyrick, 1923 (Aristotelia) 1746
59a0661 A. molestella (Zeller, 1873) (Gelechia) 1747
59a0662 A. monilella Barnes & Busck, 1920 (Aristotelia) 1748
59a0663 A. ochroxysta Meyrick, 1929 (Aristotelia) 1750
59a0664 A. planitia Braun, 1925 (Aristotelia) 1753
59a0665 A. primipilana Meyrick, 1923 (Aristotelia) 1754
59a0666 A. psoraleae Braun, 1930 (Aristotelia) 1755
59a0667 A. pudibundella (Zeller, 1873) (Gelechia) 1756
intermediella (Chambers, 1878) (Gelechia) *[1740]*
59a0668 A. rhamnina Keifer, 1933 (Aristotelia) 1758
59a0669 A. rhoisella Busck, 1934 (Aristotelia) 1759
59a0670 A. roseosuffusella (Clemens, 1860) (Gelechia) 1761
bellela (Walker, 1864) (Gelechia)
rosasuffusella; (Chambers, 1875) (Gelechia) missp.
59a0671 A. rubidella (Clemens, 1860) (Gelechia) 1762
rubensella (Chambers, 1872) (Gelechia)
59a0672 A. salicifungiella (Clemens, 1864) (Gelechia) 1763
59a0673 A. urbaurea Keifer, 1933 (Aristotelia) 1764

Genus NUMATA Busck, 1906

59a0674 N. bipunctella Busck, 1906 (Numata) 1765

Genus NAERA Chambers, 1875
LEUCE Chambers, 1875
NOTE: Chambers designated *Leuce* as a replacement name for *Naera*, believing it to be preoccupied by a mollusc genus, but that was an error; the mollusc genus is spelled differently: *Neaera* Gray, in: Griffith & Pidgeon, 1834 (contributed by SRN and GRP).

59a0675 N. fuscocristatella Chambers, 1875 (Naera) 1767
belfragesella (Chambers, 1879) (Anarsia)
fuscocristatella (Chambers, 1875) (Laverna)
NOTE: Chambers (1875a) accidentally redescribed this species in *Laverna* that he had already published in *Naera* two months earlier in a previous section of the same publication, which was split over several issues of the journal (contributed by SRN).

Genus TOSCA Heinrich, 1920

59a0676 T. elachistella (Busck, 1906) (Recurvaria) 1776
59a0677 T. plutonella Heinrich, 1920 (Tosca) 1777
59a0678 T. pollostella (Busck, 1906) (Evippe) 1778

Genus DELTOPHORA Janse, 1950
ID INFO: Sattler (1979).

59a0679 D. duplicata Sattler, 1979 (Deltophora) 1926
59a0680 D. glandiferella (Zeller, 1873) (Gelechia) 1927
glandifera; (Chambers, 1873) (Gelechia) missp.
59a0681 D. sella (Chambers, 1874) (Gelechia) 1928
ssp. a. sella (Chambers, 1874) (Gelechia)
ssp. b. atacta (Meyrick, 1927) (Aristotelia)
ssp. c. californica Sattler, 1979 (Deltophora)

Genus ORNATIVALVA Gozmány, 1955
ID INFO: Lee et al. (2017).
PELOSTOLA Janse, 1960

59a0681.5 O. erubescens (Walsingham, 1904) (Gelechia) I [NEW]
NOTE: Introduced to NA from the Mediterranean area, first found in NA in TX in 2014 (Lee et al. 2017).

Genus BRYOTROPHA Heinemann, 1870
ID INFO: Rutten & Karsholt (2004).
ADELPHOTROPHA Gozmány, 1955
MNIOPHAGA Pierce & Daltry, 1938

59a0682 B. plantariella (Tengström, 1848) (Gelechia) H [NEW]
brevipalpella Rebel, 1893 (Bryotropha)
cinerosella (Tengström, 1848) (Gelechia)
serratulella (Tengström, 1848) (Gelechia)
59a0683 B. galbanella (Zeller, 1839) (Gelechia) H [NEW]
angustella (Heinemann, 1870) (Gelechia)
fusconigratella Palm, 1947 (Bryotropha)
griseella (Caradja, 1920) (Gelechia)
haareki (Strand, 1920) (Gelechia)
ilmatariella (Hoffmann, 1893) (Gelechia)
59a0684 B. gemella Rutten & Karsholt, 2004 (Bryotropha) [NEW]
59a0685 B. similis (Stainton, 1854) (Gelechia) H [NEW]
clandestina (Meyrick, 1923) (Gelechia) *[1923]*
confinis (Stainton, 1871) (Gelechia)
dufraneella Joannis, 1928 (Bryotropha)
fuliginosella Snellen, 1882 (Bryotropha)
novisimilis Li & Zheng, 1997 (Bryotropha)
obscurecinerea (Nolcken, 1871) (Gelechia)
pullifimbriella (Clemens, 1863) (Gelechia) *[1924]*
similiella (Doubleday, 1859) (Gelechia)
stolidella (Morris, 1872) (Gelechia)
tahavusella (Forbes, 1922) (Duvita) *[1925]*
thuleella (Zeller, 1857) (Gelechia)
59a0686 B. hodgesi Rutten & Karsholt, 2004 (Bryotropha) [NEW]
59a0687 B. branella (Busck, 1908) (Gelechia) 1922
59a0688 B. altitudophila Rutten & Karsholt, 2004 (Bryotropha) [NEW]
59a0689 B. boreella (Douglas, 1851) (Gelechia) H [NEW]
NOTE: Reported from NA by Pohl et al. (2018), based on BOLD data.

Subfamily GELECHIINAE Stainton, 1854

Tribe LITINI Keifer, 1936
ID INFO: Lee & Brown (2008; genera).

Genus GLAUCE Chambers, 1875

59a0690 G. pectenalaeella Chambers, 1875 (Glauce) 1766

Genus TELPHUSA Chambers, 1872
ADRASTEIA Chambers, 1872
ADRASTIA; Kirby, 1874 missp.
GENIADOPHORA Walsingham, 1897

59a0691.3 T. alexandriacella (Chambers, 1872) (Adrasteia) 1855
NOTE: Listed as "incertae cedis" by Lee et al. (2009) and as "ident. uncertain" by Hodges (in Hodges et al. 1983).

59a0691.4 T. fasciella (Chambers, 1872) (Adrasteia) 1856
NOTE: Listed as as "incertae sedis" by Lee et al. (2009) and as "misplaced" in *Telphusa* by Hodges (in Hodges et al. 1983).
59a0691.5 T. longifasciella (Clemens, 1863) (Gelechia) 1858
curvistrigella Chambers, 1872 (Telephusa [sic])
lutraula (Meyrick, 1923) (Gelechia)
obliquifasciella (Chambers, 1880) (Gelechia)
59a0691.6 T. melanoleuca Walsingham, 1911 (Telphusa) [NEW]
NOTE: A specimen of this Mexican species was collected in December 2021 in AZ by C. H. Melton, and its identity was confirmed by Terry Harrison and Mark Metz (contributed by Cliff Ferris).

59a0691.7 T. nigrimaculata Braun, 1923 (Telphusa) [NEW]
NOTE: This species, described from CA, was overlooked by Hodges (in Hodges et al. 1983). It was listed as "incertae sedis" by Lee et al. (2009).
59a0691.8 T. perspicua (Walsingham, 1897) (Gelechia) [NEW]
NOTE: Reported from NA by Lee & Brown (2008).
59a0691.9 T. sedulitella (Busck, 1910) (Gelechia) 1859
agrifolia Braun, 1921 (Telphusa)

Genus PUBITELPHUSA Lee & Brown, 2013
ID INFO: Lee & Brown (2013).

59a0692.5 P. latifasciella (Chambers, 1875) (Gelechia) 1857

Genus AROGALEA Walsingham, 1910
ID INFO: Lee & Brown (2008).

59a0693.5 A. cristifasciella (Chambers, 1878) (Gelechia) 1851
inscripta (Walsingham, 1882) (Gelechia)

Genus SINOE Chambers, 1873
ID INFO: Lee & Brown (2012); also Lee & Brambila (2012).

59a0694.5 S. robiniella (Fitch, 1859) (Anacampsis) 1834
fuscopalidella Chambers, 1873 (Sinoe)
fuscopallidella; (Chambers, 1878) (Gelechia) missp.
robiniaefoliella (Chambers, 1880) (Gelechia)
59a0694.6 S. chambersi Lee, 2012 (Sinoe) [NEW]
59a0694.7 S. kwakae Lee, 2012 (Sinoe) [NEW]
59a0694.8 S. capsana Lee, 2012 (Sinoe) [NEW]

Genus RECURVARIA Haworth, 1828
APHANAULA Meyrick, 1895
HINNEBERGIA Spuler, 1910
LITA Kollar, 1832
MICROLECHIA Turati, 1924
TELEA Stephens, 1834

59a0702 R. nanella ([Denis & Schiffermüller], 1775) (Tinea) I 1783
NOTE: Introduced from Europe, first found in NA in the 1700s (Gillespie & Gillespie 1982).
crataegella Busck, 1903 (Recurvaria)
pumilella ([Denis & Schiffermüller], 1775) (Tinea)
unicolor Rebel, 1927 (Recurvaria)
59a0703 R. stibomorpha Meyrick, 1929 (Recurvaria) 1784
59a0704 R. taphiopis Meyrick, 1929 (Recurvaria) 1785

Genus "RECURVARIA" Haworth, 1828 PROV. PL.
NOTE: The species *consimilis*, *francisca*, and *vestigata* were listed by Lee et al. (2009) as misplaced in *Recurvaria*.

59a0704.5 R. consimilis Braun, 1930 (Recurvaria) mispl. 1781
59a0704.6 R. francisca Keifer, 1928 (Recurvaria) mispl. 1782
59a0705 R. vestigata Meyrick, 1929 (Recurvaria) mispl. 1786

Genus EXOTELEIA Wallengren, 1881
ID INFO (partial): Hodges (1985a), Adamski et al. (2010).
HERINGIA Spuler, 1910
HERINGIOLA Strand, 1917
PARALECHIA Busck, 1903

59a0705.5 E. anomala Hodges, 1985 (Exoteleia) [NEW]
59a0705.55 E. burkei Keifer, 1932 (Exoteleia) 1835
59a0705.6 E. chillcotti Freeman, 1963 (Exoteleia) [NEW]
NOTE: Transferred from *Coleotechnites* to *Exoteleia* by Adamski et al. (2010), following its inadvertent move by Lee & Brown (2008).
chilcotti; (Hodges, 1983) (Coleotechnites) missp.[1799]
59a0705.65 E. dodecella (Linnaeus, 1758) (Phalaena) I 1837
NOTE: Introduced from Europe, first found in ON in 1928; introduced later to BC (Adamski et al. 2010).
annulicornis (Stephens, 1834) (Anacampsis)
dodecea; (Haworth, 1828) (Recurvaria) emend.
duodecimcristata (Retzius, 1783) (Phalaena) emend.
favillaticella (Zeller, 1839) (Gelechia)
punctulata (Fourcroy, 1785) (Tinea)
reussiella (Ratzeburg, 1840) (Phalaena)
59a0705.7 E. nepheos Freeman, 1967 (Exoteleia) 1839
59a0705.75 E. pinifoliella (Chambers, 1880) (Gelechia) 1840

Genus "EXOTELEIA" Wallengren, 1881 PROV. PL.
NOTE: Both Hodges (1985a) and Adamski et al. (2010) stated that *californica* and *graphicella* are misplaced in *Exoteleia*.

59a0705.8 E. californica (Busck, 1907) (Paralechia) mispl. 1836
59a0705.85 E. graphicella (Busck, 1908) (Gnorimoschema) mispl. 1838

Genus COLEOTECHNITES Chambers, 1880
ID INFO (partial): Freeman (1960, 1965, 1967a), Hodges & Stevens (1978).
EIDOTHEA Chambers, 1873
EIDOTHOA; Chambers, 1873 missp.
EUCORDYLEA Dietz, 1900
EVAGORA Clemens, 1860
HAPALOSARIS Meyrick, 1917
PULICALVARIA Freeman, 1963

59a0706 C. albicostata (Freeman, 1965) (Eucordylea) 1787
59a0707 C. alnifructella (Busck, 1915) (Recurvaria) 1788
albifrutella; Poole, 1996 (Coleotechnites) missp.
59a0708 C. apicitripunctella (Clemens, 1860) (Recurvaria) 1789
abietisella (Packard, 1883) (Gelechia)
attritella (Walker, 1864) (Gelechia)
59a0709 C. ardas (Freeman, 1960) (Evagora) 1790
59a0710 C. argentiabella (Chambers, 1874) (Gelechia) 1791
59a0711 C. atrupictella (Dietz, 1900) (Eucordylea) 1792
59a0712 C. australis (Freeman, 1963) (Pulicalvaria) 1793
59a0713 C. baccharіella (Keifer, 1927) (Recurvaria) 1794
59a0714 C. biopes (Freeman, 1960) (Evagora) 1795
59a0715 C. blastovora (McLeod, 1962) (Eucordylea) 1796
59a0716 C. canusella (Freeman, 1957) (Recurvaria) 1797
59a0717 C. carbonaria (Freeman, 1965) (Pulicalvaria) 1798
59a0718 C. citriella (Chambers, 1880) (Recurvaria) 1800
59a0719 C. colubrinae (Busck, 1903) (Recurvaria) 1801
59a0720 C. condignella (Busck, 1929) (Recurvaria) 1802
59a0721 C. coniferella (Kearfott, 1907) (Recurvaria) 1803
59a0722 C. cristatella (Chambers, 1875) (Gelechia) 1804
59a0723 C. ducharmei (Freeman, 1962) (Eucordylea) 1806
59a0724 C. edulicola Hodges & Stevens, 1978 (Coleotechnites) [NEW]
59a0725 C. elucidella (Barnes & Busck, 1920) (Eucordylea) 1807
59a0726 C. eryngiella (Bottimer, 1926) (Recurvaria) 1808
59a0727 C. florae (Freeman, 1960) (Evagora) 1809
59a0728 C. gallicola (Busck, 1915) (Eucordylea) 1810
59a0729 C. gibsonella (Kearfott, 1907) (Recurvaria) 1811
59a0730 C. granti (Freeman, 1965) (Pulicalvaria) 1812
59a0731 C. huntella (Keifer, 1936) (Eucordylea) 1813
59a0732 C. invictella (Busck, 1908) (Recurvaria) 1814
59a0733 C. juniperella (Kearfott, 1903) (Recurvaria) 1815
59a0734 C. laricis (Freeman, 1965) (Pulicalvaria) 1816
59a0735 C. lewisi (Freeman, 1960) (Evagora) 1817
59a0736 C. mackiei (Keifer, 1932) (Eucordylea) 1818
59a0737 C. macleodi (Freeman, 1965) (Pulicalvaria) 1819
59a0738 C. martini (Freeman, 1965) (Pulicalvaria) 1820
59a0739 C. milleri (Busck, 1914) (Recurvaria) 1821
59a0740 C. moreonella (Heinrich, 1920) (Recurvaria) 1822
59a0741 C. nigritus (Hodges, 1983) (Recurvaria) 1823
niger; Hodges, 1983 (Coleotechnites) missp.
nigra (Busck, 1903) (Recurvaria) preocc.
59a0742 C. obliquistrigella (Chambers, 1872) (Anarsia) 1824
59a0743 C. occidentis (Freeman, 1965) (Pulicalvaria) 1825
59a0744 C. piceaella (Kearfott, 1903) (Recurvaria) 1826
niger; Hodges, 1983 (Coleotechnites) missp.
nigra (Kearfott, 1903) (Recurvaria)
obscurella (Kearfott, 1907) (Recurvaria)
59a0745 C. pinella (Busck, 1906) (Recurvaria) 1827
59a0746 C. ponderosae Hodges & Stevens, 1978 (Coleotechnites) [NEW]
59a0747 C. quercivorella (Chambers, 1872) (Gelechia) 1828
gilviscopella (Zeller, 1873) (Gelechia)
59a0748 C. resinosae (Freeman, 1960) (Evagora) 1829
59a0749 C. stanfordia (Keifer, 1933) (Recurvaria) 1830
59a0750 C. starki (Freeman, 1957) (Recurvaria) 1831
59a0751 C. thujaella (Kearfott, 1903) (Recurvaria) 1832
59a0752 C. vagatioella (Chambers, 1873) (Eidothoa) 1805
dorsivittella (Zeller, 1873) (Gelechia)
59a0753 C. variiella (Chambers, 1872) (Gelechia) [NEW]
variella; (Busck, 1903) (Recurvaria) missp. [1833]

Genus STENOLECHIA Meyrick, 1894
ID INFO: Lee & Brown (2008).
GIBBOSA Omelko, 1988
POECILIA Heinemann, 1870
STENOLOCHIA; Neblich, 1906 missp.

59a0766 S. bathrodyas Meyrick, 1935 (Stenolechia) I [NEW]
NOTE: Recently introduced from Japan (Eichlin 1980).

Genus PSEUDOTELPHUSA Janse, 1958
ID INFO (partial): Lee (2011).
KLAUSSATTLERIA Căpuşe, 1968
SATTLERIA Căpuşe, 1968

59a0778 P. amelanchierella (Braun, 1930) (Telphusa) 1867
59a0779 P. basifasciella (Zeller, 1873) (Gelechia) 1868
59a0780 P. betulella (Busck, 1903) (Telephusa) 1870
59a0781 P. floridana Lee, 2011 (Pseudotelphusa) [NEW]
59a0782 P. fuscopunctella (Clemens, 1863) (Gelechia) 1871
59a0783 P. incana Hodges, 1969 (Pseudotelphusa) 1872
59a0784 P. landryi Lee, 2011 (Pseudotelphusa) [NEW]
59a0785 P. ontariensis Lee, 2011 (Pseudotelphusa) [NEW]
59a0786 P. palliderosacella (Chambers, 1878) (Gelechia) 1873
59a0787 P. quercinigracella (Chambers, 1872) (Gelechia) 1874
fragmentella (Zeller, 1873) (Gelechia)
quercinigraeella; (Chambers, 1878) (Gelechia) missp.

Genus CARPATOLECHIA Căpuşe, 1964
VICINA Omelko, 1999

59a0787.51 C. belangerella (Chambers, 1875) (Gelechia) 1869
NOTE: Moved from *Pseudotelphusa* to *Carpatolechia* by Lee & Brown (2008).
oronella (Walsingham, 1882) (Gelechia)
proximella of authors; (not Hübner, 1796) (Tinea) misappl.
NOTE: Reports of this species in NA are erroneous, based on misidentified material that has been corrected to *C. belangerella*.
59a0787.52 C. fugitivella (Zeller, 1839) (Gelechia) H/I [NEW]
NOTE: First reported for NA by Lee et al. (2009) based on information from JFL.
melanella (Romaniszyn, 1933) (Teleia)
vovkella (Piskunov, 1973) (Klaussattleria)
59a0787.53 C. notatella (Hübner, [1813]) (Tinea) H/I [NEW]
NOTE: First reported for NA by Lee et al. (2009) based on information from JFL.
euratella (Herrich-Schäffer, 1853) (Gelechia)
oskella (Piskunov, 1973) (Teleiodes)

Genus ARCUTELPHUSA Lee & Brown, 2008
ID INFO: Lee & Brown (2008).

59a0787.6 A. talladega Lee, 2008 (Arcutelphusa) [NEW]

Genus NEOTELPHUSA Janse, 1958

59a0787.71 N. praefixa (Braun, 1921) (Telphusa) 1865
59a0787.72 N. querciella (Chambers, 1872) (Depressaria) 1866
59a0787.73 N. sequax (Haworth, 1828) (Recurvaria) H/I 1881
NOTE: Moved from *Teleiodes* Sattler, 1960 to *Neotelphusa* by Lee & Brown (2008).
apicistrigella (Duponchel, [1843]) (Lita)

Genus TELEIOPSIS Sattler, 1960
ID INFO: Pitkin (1988).

Teleiopsis terebinthinella group Pitkin, 1988

59a0787.8 T. baldiana (Barnes & Busck, 1920) (Telphusa) 1882

Genus XENOLECHIA Meyrick, 1895
ID INFO (partial): Adamski et al. (2014).

59a0788 X. aethiops (Humphreys & Westwood, 1845) (Gelechia) H/I 1875
aterrima (Edleston, 1844) (Anacampsis)
squamulella (Peyerimhoff, 1871) (Gelechia)
tristis (Staudinger, 1879) (Gelechia)
59a0789 X. basistrigella (Zeller, 1873) (Gelechia) 1877
59a0789.1 X. ceanothiae Priest, 2014 (Xenolechia) [NEW]
59a0790 X. ceanothiella (Braun, 1921) (Recurvaria) 1780
NOTE: Moved from *Recurvaria* to *Xenolechia* by Lee & Brown (2008).
59a0791 X. ontariensis Keifer, 1933 (Xenolechia) 1878
59a0792 X. querciphaga Keifer, 1933 (Xenolechia) 1879

59a0792.1 X. quinquecristatella (Chambers, 1878) (Gelechia) ident. uncert. 1876
NOTE: The taxon *X. quinquecristatella* was synonymized under *X. aethiops* by Meyrick (1925: 69) in his catalog of Gelechiidae, where these species were at the time placed in *Telphusa*. It is unknown on what basis Meyrick established the synonymy. This was followed by McDunnough in his 1939 checklist. Hodges (in Hodges et al. 1983) reinstated *quinquecristatella* as valid; this was followed by Lee & Brown (2008) but reversed to a junior synonym in the Lee et al. (2009) checklist. Thus as of the latest publication to treat the species, the current status is that *quinquecristatella* is regarded as a junior synonym. None of these works gave any explanation for the changes. The real identity of *quinquecristatella* remains uncertain. The TL is unknown. Chambers described the species in a paper in which there is a mixture of species from Bosque Co., TX and from KY, but for some species, such as *quinquecristatella*, he omitted to mention where it came from. The type appears to be lost. DNA barcoding and genitalia examination among *Xenolechia* species by JFL suggest that it is best to reinstate *quinquecristatella* as valid until a full revision is conducted.
59a0793 X. velatella (Busck, 1907) (Telphusa) 1880

Genus ARGYROLACIA Keifer, 1936
ID INFO: Lee & Brown (2008).

59a0794.5 A. bifida Keifer, 1936 (Argyrolacia) 1779

Genus ALTENIA Sattler, 1960

59a0798 A. perspersella (Wocke, 1862) (Gelechia) H [NEW]
NOTE: First listed for NA by Lee et al. (2009), based on information from JFL; details on Holarctic status provided by Landry et al. (2013).
empetrella (Karvonen, 1932) (Teleia)

Tribe GELECHIINI Stainton, 1854

Genus TRYPANISMA Clemens, 1860

59a0800 T. prudens Clemens, 1860 (Trypanisma) 1841
fagella Busck, 1903 (Trypanisma)
quinqueannulella (Chambers, 1872) (Gelechia)
quinqueanuella; (Chambers, 1878) (Gelechia) missp.

Genus PSEUDOCHELARIA Dietz, 1900

59a0801 P. arbutina (Keifer, 1930) (Gelechia) 1860
59a0802 P. manzanitae (Keifer, 1930) (Gelechia) 1861
59a0803 P. pennsylvanica Dietz, 1900 (Pseudochelaria) 1862
59a0804 P. scabrella (Busck, 1913) (Gelechia) 1863
59a0805 P. walsinghami Dietz, 1900 (Pseudochelaria) 1864

Genus ATHRIPS Billberg, 1820
ID INFO: Bidzilya (2005).
CREMONA Busck, 1934
EPITHECTIS Meyrick, 1895
LEOBATUS Walsingham, 1904
RHYNCHOPACHA Staudinger, 1871
ZIMINIOLA Gerasimov, 1930

59a0806 A. mouffetella (Linnaeus, 1758) (Phalaena) H/I 1852
pedisequella (Hübner, 1796) (Tinea)
punctifera (Haworth, 1828) (Recurvaria)
59a0807 A. pruinosella (Lienig & Zeller, 1846) (Gelechia)H 1853
59a0808 A. rancidella (Herrich-Schäffer, 1854) (Gelechia)I 1854
NOTE: Introduced from Europe (Powell 1985a). NA populations are recognized as the nominate subspecies, following the description of subspecies *tadzhika* from Tadzhikistan by Bidzilya (2005).
ssp. a. rancidella (Herrich-Schäffer, 1854) (Gelechia)
cerasivorella (Kuznetzov, 1960) (Epithectis)
cotoneastri (Busck, 1934) (Cremona)
haifella Amsel, 1935 (Athrips)
superfetella (Peyerimhoff, 1877) (Gelechia)
triatomaea (Mühlig, 1864) (Gelechia)
vepretella (Zeller, 1871) (Gelechia)

Genus PROLITA Leraut, 1993
ID INFO: Hodges (1966b).
LITA Treitschke, 1833

59a0809 P. sexpunctella (Fabricius, 1794) (Tinea) H 1898
alpicola (Frey, 1867) (Gelechia)
alternatella (Kearfott, 1908) (Gelechia)
histrionella (Geyer, 1832) (Tortrix)
longicornis (Curtis, 1827) (Anacampsis)
melanica (Strand, 1920) (Gelechia)
petulans (Braun, 1925) (Gelechia)
virgella (Thunberg, 1794) (Tinea)
zebrella (Treitschke, 1833) (Lita)
59a0810 P. variabilis (Busck, 1903) (Gelechia) 1902

59a0811 P. barnesiella (Busck, 1903) (Gelechia) 1883
59a0812 P. incicur (Hodges, 1966) (Lita) 1887
59a0813 P. geniata (Hodges, 1966) (Lita) 1886
59a0814 P. puertella (Busck, 1916) (Gelechia) 1895
59a0815 P. deoia (Hodges, 1966) (Lita) 1884
59a0816 P. dialis (Hodges, 1966) (Lita) 1885
59a0817 P. pagella (Hodges, 1966) (Lita) 1893
59a0818 P. obnubila (Hodges, 1966) (Lita) 1892
59a0819 P. maenadis (Hodges, 1966) (Lita) 1890
59a0820 P. veledae (Hodges, 1966) (Lita) 1903
59a0821 P. rectistrigella (Barnes & Busck, 1920) (Gelechia) 1897
59a0822 P. sironae (Hodges, 1966) (Lita) 1899
59a0823 P. thaliae (Hodges, 1966) (Lita) 1901
59a0824 P. texanella (Chambers, 1880) (Anesychia) 1900
NOTE: The name *chambersella* was erroneously proposed as a replacement name for *Anesychia texanella* Chambers, 1880; Dyar had meant to propose the name as a replacement for *Hyponomeuta texanella* Chambers, 1880, another species described in the same paper by Chambers. See details under *Pseuderotis obliterella* (Depressariidae).
chambersella (Dyar, [1903] 1902) (Ethmia)
59a0825 P. recens (Hodges, 1966) (Lita) 1896
59a0826 P. princeps (Busck, 1910) (Gnorimoschema) 1894
59a0827 P. jubata (Hodges, 1966) (Lita) 1889
59a0828 P. nefrens (Hodges, 1966) (Lita) 1891
59a0829 P. invariabilis (Kearfott, 1908) (Gelechia) 1888

Genus ARLA Clarke, 1942
ID INFO: Hodges (1966b).

59a0830 A. tenuicornis Clarke, 1942 (Arla) 1905
59a0831 A. diversella (Busck, 1916) (Gelechia) 1904

Genus NEODACTYLOTA Busck, 1903
ID INFO: Hodges (1966b).

59a0832 N. snellenella (Walsingham, 1888) (Dactylota) 1909
59a0833 N. liguritrix Hodges, 1966 (Neodactylota) 1908
59a0834 N. basilica Hodges, 1966 (Neodactylota) 1906
59a0835 N. egena Hodges, 1966 (Neodactylota) 1907

Genus EUDACTYLOTA Walsingham, 1911
ID INFO: Hodges (1966b).

59a0836 E. barberella (Busck, 1903) (Neodactylota) 1911
59a0837 E. iobapta (Meyrick, 1927) (Stomopteryx) 1913
59a0838 E. diadota Hodges, 1966 (Eudactylota) 1912
59a0839 E. abstemia Hodges, 1966 (Eudactylota) 1910

Genus FRISERIA Busck, 1939
ID INFO: Hodges (1966b).

59a0840 F. cockerelli (Busck, 1903) (Gelechia) 1916
lindenella (Busck, 1903) (Gelechia)
malindella (Busck, 1910) (Gelechia)
sarcochlora (Meyrick, 1929) (Gelechia)
59a0841 F. caieta Hodges, 1966 (Friseria) 1915
59a0842 F. nona Hodges, 1966 (Friseria) 1917
59a0843 F. acaciella (Busck, 1906) (Telphusa) 1914

Genus RIFSERIA Hodges, 1966
ID INFO: Hodges (1966b).

59a0844 R. fuscotaeniaella (Chambers, 1878) (Gelechia) 1918

Genus SRIFERIA Hodges, 1966
ID INFO: Hodges (1966b).

59a0845 S. cockerella (Busck, 1903) (Aristotelia) 1919
59a0846 S. fulmenella (Busck, 1910) (Gelechia) 1920
prorepta (Meyrick, 1923) (Gelechia)
59a0847 S. oxymeris (Meyrick, 1929) (Epithectis) 1921

Genus GELECHIA Hübner, 1825
NOTE: This genus has been a "dumping ground" for many years, and some species currently placed here likely do not belong. The identity of several of Chambers' species are uncertain, see annotations by Hodges (in Hodges et al. 1983), and Miller & Hodges (1990).
CIRRHA Chambers, 1872
GUENEA Bruand, 1850
MESOGELECHIA Omelko, 1986
OESEIS Chambers, 1875

59a0848 G. albisparsella (Chambers, 1872) (Depressaria) 1929
fuscoluteella (Chambers, 1872) (Depressaria)
platanella (Chambers, 1872) (Cirrha)
59a0849 G. anarsiella Chambers, 1877 (Gelechia) 1930
59a0851 G. benitella Barnes & Busck, 1920 (Gelechia) 1932
59a0852 G. bianulella (Chambers, 1875) (Oeseis) 1933
melanochlora (Meyrick, 1929) (Nothris)
ocelella; Chambers, 1878 (Gelechia) missp.
ocellella Chambers, 1877 (Gelechia)
59a0855 G. caudatae Clarke, 1934 (Gelechia) 1937
59a0856 G. desiliens Meyrick, 1923 (Gelechia) 1938
59a0858 G. discostrigella Chambers, 1875 (Gelechia) 1939
NOTE: Listed as "ident. uncertain" by Hodges (in Hodges et al. 1983), and as "incertae sedis" in Lee et al. (2009).
59a0859 G. dromicella Busck, 1910 (Gelechia) 1940
59a0860 G. dyariella Busck, 1903 (Gelechia) 1941
59a0862 G. gracula (Meyrick, 1929) (Nothris) 1943
diaconalis (Meyrick, 1929) (Nothris)
59a0866E G. intermedia Braun, 1923 (Gelechia) EXCL. [NEW]
NOTE: This species was described from "Angeles Bay, Lower California", which is in Baja California, Mexico. It has mistakenly been reported as being described from CA but it is not known north of the Mexican border.
59a0867 G. lynceella Zeller, 1873 (Gelechia) 1946
59a0869 G. mandella Busck, 1904 (Gelechia) 1948
NOTE: This species was recently treated by Bidzilya et al. (2021).
59a0871 G. monella Busck, 1904 (Gelechia) 1950
59a0872 G. mundata (Meyrick, 1929) (Nothris) 1951
59a0878 G. panella Busck, 1903 (Gelechia) 1958
59a0879 G. ribesella Chambers, 1875 (Gelechia) 1960
59a0880 G. rileyella (Chambers, 1872) (Depressaria) 1961
59a0881 G. sabinellus (Zeller, 1839) (Ypsolophus) H/I 1962
corsella (Rebel, 1930) (Nothris)
hoffmanniella (Strand, 1902) (Nothris)
kalevalella (Kanerva, 1936) (Nothris)
59a0883 G. thymiata (Meyrick, 1929) (Nothris) 1964
59a0885 G. versutella Zeller, 1873 (Gelechia) 1966

Genus "GELECHIA" Hübner, 1825 PROV. PL.
NOTE: The species placed here in "*Gelechia*" were listed as "ident. uncertain" by Hodges (in Hodges et al. 1983) and Lee et al. (2009).

59a0885.1 G. badiomaculella Chambers, 1872 (Gelechia) ident. uncert. 1931
59a0885.15 G. bistrigella (Chambers, 1872) (Depressaria) ident. uncert. 1934
59a0885.2 G. capiteochrella Chambers, 1875 (Gelechia) ident. uncert. 1936
59a0885.25 G. discoanulella Chambers, 1875 (Gelechia) ident. uncert. [NEW]
discoannulella; (Hodges, 1983) (Brachmia) missp. [2266]
59a0885.3 G. flexurella Clemens, 1860 (Gelechia) ident. uncert. 1942
59a0885.35 G. griseaella (Chambers, 1872) (Parasia) ident. uncert. [NEW]
grisaeella; Hodges, 1983 (Gelechia) missp. [1944]
59a0885.4 G. griseella (Chambers, 1874) (Nothris) ident. uncert. 2296
grisseella; (Chambers, 1878) (Nothris) missp.
59a0885.45 G. grisseochrella Chambers, 1875 (Gelechia) ident. uncert. [NEW]
griseochrella; Busck, 1903 (Gelechia) missp. [1945]
59a0885.5 G. maculatusella Chambers, 1875 (Gelechia) ident. uncert. 1947
59a0885.55 G. mimella Clemens, 1860 (Gelechia) ident. uncert. 1949
59a0885.6 G. obscurella Chambers, 1872 (Gelechia) ident. uncert. 1952
perobscurella Walsingham, 1903 (Gelechia)
59a0885.65 G. ocherfuscella Chambers, 1875 (Gelechia) ident. uncert. 1954
ochreofuscella; Chambers, 1878 (Gelechia) missp.
ochreofuscella; Meyrick, 1925 (Gelechia) missp.
59a0885.7 G. packardella Chambers, 1877 (Gelechia) ident. uncert. 1955
59a0885.75 G. pallidagriseella Chambers, 1874 (Gelechia) ident. uncert. 1956
NOTE: Chambers emended his original spelling *pallidagriseella* to "*pallidegrisseella*" in a subsequent paper, but managed to get the original spelling wrong (as "*pallidagrasseella*") in the correction.
pallidagrisseella; Chambers, 1875 (Gelechia) missp.
pallidegrisseella; Chambers, 1875 (Gelechia) emend.
59a0885.8 G. palpialbella Chambers, 1875 (Gelechia) ident. uncert. 1957

59a0885.85 G. thoracestrigella Chambers, 1875 (Gelechia) ident. uncert. 1963
59a0885.9 G. unistrigella Chambers, 1873 (Gelechia) ident. uncert. 1965
59a0886 G. wacoella Chambers, 1874 (Gelechia) ident. uncert. 1967

Genus CHIONODES Hübner, 1825

ID INFO: Hodges (1999b); also Metzler (2014), Metzler & Landry (2016).

NOTE: This genus was divided into groups and complexes by Hodges (1999).

OXYXRYPTIS Meyrick, 1912

Chionodes formosella group Hodges, 1999

Chionodes formosella complex Hodges, 1999

59a0887 C. formosella (Murtfeldt, 1881) (Gelechia) 2077
vernella (Murtfeldt, 1883) (Gelechia)
59a0888 C. powelli Hodges, 1999 (Chionodes) [NEW]
59a0889 C. fuscomaculella (Chambers, 1872) (Gelechia) 2079
caryaevorella (Packard, 1886) (Gelechia)
maculimarginella (Chambers, 1874) (Gelechia)
59a0890 C. bicostomaculella (Chambers, 1872) (Depressaria) 2064
quercifoliella (Chambers, 1872) (Adrasteia)
59a0891 C. iridescens Clarke, 1947 (Chionodes) 2085
59a0892 C. argentipunctella (Ely, 1910) (Gelechia) 2061
59a0893 C. hapsus Hodges, 1999 (Chionodes) [NEW]
59a0894 C. abitus Hodges, 1999 (Chionodes) [NEW]
59a0895 C. suasor Hodges, 1999 (Chionodes) [NEW]
59a0896 C. percultor Hodges, 1999 (Chionodes) [NEW]

Chionodes gilvomaculella complex Hodges, 1999

59a0897 C. gilvomaculella (Clemens, 1863) (Gelechia) 2080
59a0898 C. rabula Hodges, 1999 (Chionodes) [NEW]
59a0899 C. cacula Hodges, 1999 (Chionodes) [NEW]
59a0900 C. emptor Hodges, 1999 (Chionodes) [NEW]
59a0901 C. drapeta Hodges, 1999 (Chionodes) [NEW]
59a0902 C. esor Hodges, 1999 (Chionodes) [NEW]
59a0903 C. abavus Hodges, 1999 (Chionodes) [NEW]

Chionodes franclemonti complex Hodges, 1999

59a0904 C. franclemonti Hodges, 1999 (Chionodes) [NEW]
59a0905 C. tarmes Hodges, 1999 (Chionodes) [NEW]

Chionodes lophosella complex Hodges, 1999

59a0906 C. lophosella (Busck, 1910) (Gelechia) 2089
lophella; (Meyrick, 1925) (Telphusa) missp.
59a0907 C. nanodella (Busck, 1910) (Gelechia) 2095

Chionodes abella complex Hodges, 1999

59a0908 C. donahueorum Hodges, 1999 (Chionodes) [NEW]
59a0909 C. pulvis Hodges, 1999 (Chionodes) [NEW]
59a0910 C. sannio Hodges, 1999 (Chionodes) [NEW]
59a0911 C. stator Hodges, 1999 (Chionodes) [NEW]
59a0912 C. imber Hodges, 1999 (Chionodes) [NEW]
59a0913 C. meddix Hodges, 1999 (Chionodes) [NEW]
59a0914 C. lactans Hodges, 1999 (Chionodes) [NEW]
59a0915 C. volo Hodges, 1999 (Chionodes) [NEW]
59a0916 C. obex Hodges, 1999 (Chionodes) [NEW]
59a0917 C. munifex Hodges, 1999 (Chionodes) [NEW]
59a0918 C. naevus Hodges, 1999 (Chionodes) [NEW]
59a0919 C. davisi Hodges, 1999 (Chionodes) [NEW]
59a0920 C. abella (Busck, 1903) (Gelechia) 2055
59a0921 C. sabinianae Powell, 1959 (Chionodes) 2113
59a0922 C. periculella (Busck, 1910) (Gelechia) 2105
59a0923 C. pavor Hodges, 1999 (Chionodes) [NEW]
59a0924 C. johnstoni Clarke, 1947 (Chionodes) [NEW]
59a0925 C. pacator Hodges, 1999 (Chionodes) [NEW]
59a0926 C. tessa Clarke, 1947 (Chionodes) 2118
59a0927 C. rector Hodges, 1999 (Chionodes) [NEW]
59a0928 C. delitor Hodges, 1999 (Chionodes) [NEW]
59a0929 C. nitor Hodges, 1999 (Chionodes) [NEW]
59a0930 C. sanator Hodges, 1999 (Chionodes) [NEW]
59a0931 C. regens Hodges, 1999 (Chionodes) [NEW]
59a0931.1 C. bustosorum Metzler, 2016 (Chionodes) [NEW]

Chionodes sistrella complex Hodges, 1999

59a0932 C. kincaidella (Busck, 1907) (Gelechia) 2086
acanthocarpae Clarke, 1947 (Chionodes)
chloroschema (Meyrick, 1923) (Gelechia)
coticola (Busck, 1913) (Gelechia)
laguna (Busck, 1912) (Gnorimoschema)
notochlora (Meyrick, 1929) (Gelechia)
59a0933 C. macor Hodges, 1999 (Chionodes) [NEW]
59a0934 C. oecus Hodges, 1999 (Chionodes) [NEW]
59a0935 C. repertor Hodges, 1999 (Chionodes) [NEW]
59a0936 C. xanthophilella (Barnes & Busck, 1920) (Gelechia) 2125
59a0937 C. hodgesorum Metzler, 2014 (Chionodes) [NEW]
59a0938 C. pinguicula (Meyrick, 1929) (Gelechia) 2109
59a0939 C. plutor Hodges, 1999 (Chionodes) [NEW]
59a0940 C. nepos Hodges, 1999 (Chionodes) [NEW]
59a0941 C. procus Hodges, 1999 (Chionodes) [NEW]
59a0942 C. paean Hodges, 1999 (Chionodes) [NEW]
59a0943 C. sistrella (Busck, 1903) (Gelechia) 2116
59a0944 C. dentella (Busck, 1903) (Gelechia) 2071
59a0945 C. landryi Hodges, 1999 (Chionodes) [NEW]
59a0946 C. thyotes Hodges, 1999 (Chionodes) [NEW]
59a0947 C. abdominella (Busck, 1903) (Gelechia) 2054
59a0948 C. fructuaria (Braun, 1925) (Gelechia) 2078
59a0949 C. cibus Hodges, 1999 (Chionodes) [NEW]

Chionodes dammersi complex Hodges, 1999

59a0950 C. bardus Hodges, 1999 (Chionodes) [NEW]
59a0951 C. luteogeminatus (Clarke, 1935) (Gelechia) 2091
59a0952 C. paralogella (Busck, 1916) (Gelechia) 2103
59a0953 C. dammersi (Keifer, 1936) (Gelechia) 2070
59a0954 C. helicosticta (Meyrick, 1929) (Gelechia) 2083
59a0955 C. notandella (Busck, 1916) (Gelechia) 2098
59a0956 C. morus Hodges, 1999 (Chionodes) [NEW]
59a0957 C. ochreostrigella (Chambers, 1875) (Gelechia) 2102
59a0958 C. rhombus Hodges, 1999 (Chionodes) [NEW]

Chionodes obscurusella group Hodges, 1999

Chionodes thoraceochrella complex Hodges, 1999

59a0959 C. thoraceochrella (Chambers, 1872) (Gelechia) 2119
nigrimaculella (Busck, 1903) (Gelechia)
thoracochrella; Meyrick, 1925 (Chionodes) missp.
59a0960 C. chrysopyla (Keifer, 1935) (Gelechia) 2068
59a0961 C. salicella Sattler, 1967 (Chionodes) 2114

Chionodes hostis complex Hodges, 1999

59a0962 C. lector Hodges, 1999 (Chionodes) [NEW]
59a0963 C. hostis Hodges, 1999 (Chionodes) [NEW]

Chionodes obscurusella complex Hodges, 1999

59a0964 C. obscurusella (Chambers, 1872) (Depressaria) 2099
asema Clarke, 1947 (Chionodes)
fuscopulvella (Chambers, 1872) (Gelechia)
negundella (Heinrich, 1920) (Gelechia) *[2096]*
obscurella (Walsingham, 1903) (Gelechia)
59a0965 C. acerella Sattler, 1967 (Chionodes) 2057
59a0966 C. metoecus Hodges, 1999 (Chionodes) [NEW]

Chionodes occidentella complex Hodges, 1999

59a0967 C. occidentella (Chambers, 1875) (Gelechia) 2100
vanduzeei (Keifer, 1935) (Gelechia) *[2122]*
59a0968 C. fremor Hodges, 1999 (Chionodes) [NEW]
59a0969 C. soter Hodges, 1999 (Chionodes) [NEW]
59a0970 C. lusor Hodges, 1999 (Chionodes) [NEW]
59a0971 C. mediofuscella (Clemens, 1863) (Gelechia) 2093
fuscoochrella (Chambers, 1872) (Depressaria)
liturosella (Zeller, 1873) (Gelechia)
rhedaria (Meyrick, 1923) (Gelechia)
vagella (Walker, 1864) (Gelechia)

Chionodes terminimaculella complex Hodges, 1999

59a0972 C. terminimaculella (Kearfott, 1908) (Gelechia) 2117

Chionodes erro complex Hodges, 1999

59a0973 C. erro Hodges, 1999 (Chionodes) [NEW]

Chionodes trichostola complex Hodges, 1999

59a0974 C. trichostola (Meyrick, 1923) (Gelechia) 2120
59a0975 C. parens Hodges, 1999 (Chionodes) [NEW]
59a0976 C. sevir Hodges, 1999 (Chionodes) [NEW]

Chionodes acrina complex Hodges, 1999

59a0977 C. acrina (Keifer, 1933) (Gelechia) 2058
59a0978 C. adam Hodges, 1999 (Chionodes) [NEW]
59a0979 C. altor Hodges, 1999 (Chionodes) [NEW]

Chionodes concinna complex Hodges, 1999

59a0980 C. cautor Hodges, 1999 (Chionodes) [NEW]

Chionodes irreptor complex Hodges, 1999

59a0981 C. irreptor Hodges, 1999 (Chionodes) [NEW]

Chionodes baro complex Hodges, 1999

59a0982 C. baro Hodges, 1999 (Chionodes) [NEW]
59a0983 C. secutor Hodges, 1999 (Chionodes) [NEW]

Chionodes trophella complex Hodges, 1999

59a0984 C. trophella (Busck, 1903) (Gelechia) 2121
59a0985 C. restio Hodges, 1999 (Chionodes) [NEW]

Chionodes pinax complex Hodges, 1999

59a0986 C. pinax Hodges, 1999 (Chionodes) [NEW]

Chionodes adamas complex Hodges, 1999

59a0987 C. adamas Hodges, 1999 (Chionodes) [NEW]
59a0988 C. ludio Hodges, 1999 (Chionodes) [NEW]
59a0989 C. messor Hodges, 1999 (Chionodes) [NEW]
59a0990 C. optio Hodges, 1999 (Chionodes) [NEW]
59a0991 C. pastor Hodges, 1999 (Chionodes) [NEW]
59a0992 C. nubis Hodges, 1999 (Chionodes) [NEW]

Chionodes magirus complex Hodges, 1999

59a0993 C. magirus Hodges, 1999 (Chionodes) [NEW]

Chionodes innox complex Hodges, 1999

59a0994 C. innox Hodges, 1999 (Chionodes) [NEW]
59a0995 C. gestor Hodges, 1999 (Chionodes) [NEW]

Chionodes fondella complex Hodges, 1999

59a0996 C. fondella (Busck, 1906) (Gelechia) 2076
59a0997 C. pseudofondella (Busck, 1908) (Gelechia) 2110

Chionodes bibo complex Hodges, 1999

59a0998 C. bibo Hodges, 1999 (Chionodes) [NEW]

Chionodes pereyra complex Hodges, 1999

59a0999 C. pereyra Clarke, 1947 (Chionodes) 2104
59a1000 C. petalumensis Clarke, 1947 (Chionodes) 2107

Chionodes phalacra group Hodges, 1999

59a1001 C. phalacra (Walsingham, 1911) (Gelechia) 2108
59a1002 C. popa Hodges, 1999 (Chionodes) [NEW]
59a1003 C. mariona (Heinrich, 1921) (Telephusa) 2092
59a1004 C. donatella (Walker, 1864) (Gelechia) [NEW]
59a1005 C. petro Hodges, 1999 (Chionodes) [NEW]

Chionodes discoocellella group Hodges, 1999

59a1006 C. discoocellella (Chambers, 1872) (Gelechia) 2072
discoocella; (Chambers, 1878) (Gelechia) missp.
violaceofusca (Zeller, 1873) (Gelechia)
59a1007 C. halycopa (Meyrick, 1927) (Gelechia) 2082

Chionodes ceryx group Hodges, 1999

59a1008 C. ceryx Hodges, 1999 (Chionodes) [NEW]

Chionodes lugubrella group Hodges, 1999

Chionodes lugubrella complex Hodges, 1999

59a1009 C. lugubrella (Fabricius, 1794) (Tinea) H 2090
luctificella (Hübner, 1813) (Tinea)
lunatella (Zetterstedt, 1839) (Lita)
59a1010 C. obelus Hodges, 1999 (Chionodes) [NEW]
59a1011 C. ceanothiella (Busck, 1904) (Gelechia) 2067
marinensis (Keifer, 1935) (Gelechia)
59a1012 C. kubai Hodges, 1999 (Chionodes) [NEW]

Chionodes hibiscella complex Hodges, 1999

59a1013 C. canofusella Clarke, 1947 (Chionodes) 2066
59a1014 C. aruns Hodges, 1999 (Chionodes) [NEW]
59a1015 C. chlorocephala (Meyrick, 1932) (Gelechia) [NEW]
59a1016 C. hibiscella (Busck, 1903) (Gelechia) 2084
59a1017 C. bios Hodges, 1999 (Chionodes) [NEW]

Chionodes retiniella complex Hodges, 1999

59a1018 C. retiniella (Barnes & Busck, 1920) (Gelechia) 2112
langei (Keifer, 1936) (Gelechia)
59a1019 C. elainae Hodges, 1999 (Chionodes) [NEW]
59a1020 C. luror Hodges, 1999 (Chionodes) [NEW]

Chionodes tragicella complex Hodges, 1999

59a1021 C. arenella (Forbes, 1922) (Gelechia) 2060
59a1022 C. figurella (Busck, 1912) (Gelechia) 2073
59a1023 C. aristella (Busck, 1903) (Gelechia) 2062
59a1024 C. grandis Clarke, 1947 (Chionodes) 2081
59a1025 C. factor Hodges, 1999 (Chionodes) [NEW]
59a1026 C. hospes Hodges, 1999 (Chionodes) [NEW]
59a1027 C. pallor Hodges, 1999 (Chionodes) [NEW]
59a1028 C. dolo Hodges, 1999 (Chionodes) [NEW]

Chionodes luctuella complex Hodges, 1999

59a1029 C. rectifex Hodges, 1999 (Chionodes) [NEW]

Chionodes holocerisella complex Hodges, 1999

59a1030 C. praeclarella (Herrich-Schäffer, 1854) (Gelechia)
H [NEW]
fluvialella (Busck, 1908) (Gelechia) *[2075]*
labradorica (Möschler, 1864) (Gelechia) *[2087]*
pergrandella (Rebel, 1917) (Gelechia)
59a1031 C. psiloptera (Barnes & Busck, 1920) (Gelechia) 2111
abradescens (Braun, 1921) (Gelechia) *[2056]*
59a1032 C. aleo Hodges, 1999 (Chionodes) [NEW]
59a1033 C. agriodes (Meyrick, 1927) (Gelechia) 2059
seculaella (Clarke, 1932) (Gelechia) *[2115]*
59a1034 C. rupex Hodges, 1999 (Chionodes) [NEW]
59a1035 C. gratus Hodges, 1999 (Chionodes) [NEW]
59a1036 C. cusor Hodges, 1999 (Chionodes) [NEW]
59a1037 C. fimus Hodges, 1999 (Chionodes) [NEW]
59a1038 C. bicolor Clarke, 1947 (Chionodes) 2063
59a1039 C. whitmanella Clarke, 1942 (Chionodes) 2124
59a1040 C. senica Hodges, 1999 (Chionodes) [NEW]
59a1041 C. dator Hodges, 1999 (Chionodes) [NEW]
59a1042 C. sponsus Hodges, 1999 (Chionodes) [NEW]
59a1043 C. ustor Hodges, 1999 (Chionodes) [NEW]
59a1044 C. rogator Hodges, 1999 (Chionodes) [NEW]
59a1045 C. mikkolai Hodges, 1999 (Chionodes) [NEW]
59a1046 C. praeco Hodges, 1999 (Chionodes) [NEW]
59a1047 C. molitor Hodges, 1999 (Chionodes) [NEW]
59a1048 C. occlusa (Braun, 1925) (Gelechia) 2101
59a1049 C. boreas Hodges, 1999 (Chionodes) [NEW]
59a1050 C. trico Hodges, 1999 (Chionodes) [NEW]
59a1051 C. veles Hodges, 1999 (Chionodes) [NEW]

Chionodes theurgis complex Hodges, 1999

59a1052 C. theurgis Hodges, 1999 (Chionodes) [NEW]
59a1053 C. gerdius Hodges, 1999 (Chionodes) [NEW]

59a1054 C. tributor Hodges, 1999 (Chionodes) [NEW]

Chionodes distinctella complex Hodges, 1999

59a1055 C. viduella (Fabricius, 1794) (Tinea) H 2123
labradoriella (Clemens, 1863) (Gelechia)
leucomella (Quensel, 1802) (Tinea)
luctiferella (Herrich-Schäffer, 1856) (Gelechia)
59a1056 C. ensis Hodges, 1999 (Chionodes) [NEW]
59a1057 C. continuella (Zeller, 1839) (Gelechia) H 2069
albomaculella (Chambers, 1875) (Gelechia)
brumella (Clemens, 1864) (Gelechia) *[1935]*
trimaculella (Packard, 1867) (Gelechia)
59a1058 C. sattleri Hodges, 1999 (Chionodes) [NEW]
59a1059 C. offectus Hodges, 1999 (Chionodes) [NEW]
59a1060 C. fictor Hodges, 1999 (Chionodes) [NEW]
59a1061 C. metallica (Braun, 1921) (Gelechia) 2094
59a1062 C. sepultor Hodges, 1999 (Chionodes) [NEW]
59a1063 C. canor Hodges, 1999 (Chionodes) [NEW]
59a1064 C. histon Hodges, 1999 (Chionodes) [NEW]
59a1065 C. lictor Hodges, 1999 (Chionodes) [NEW]
59a1066 C. praecia Hodges, 1999 (Chionodes) [NEW]
59a1067 C. nigrobarbata (Braun, 1925) (Gelechia) 2097
59a1068 C. praetor Hodges, 1999 (Chionodes) [NEW]
59a1069 C. latro Hodges, 1999 (Chionodes) [NEW]

Chionodes braunella complex Hodges, 1999

59a1070 C. braunella (Keifer, 1931) (Gelechia) 2065
arborei (Keifer, 1931) (Gelechia)
loetae Clarke, 1942 (Chionodes) *[2088]*

Chionodes impes complex Hodges, 1999

59a1071 C. impes Hodges, 1999 (Chionodes) [NEW]

Chionodes fumatella complex Hodges, 1999

59a1072 C. permacta (Braun, 1925) (Gelechia) 2106
59a1073 C. clarkei Hodges, 1999 (Chionodes) [NEW]
59a1074 C. flavicorporella (Walsingham, 1882) (Gelechia) 2074
59a1075 C. fumatella (Douglas, 1850) (Gelechia) H [NEW]
NOTE: Holarctic species discovered via DNA barcoding (Pohl et al. 2018).
brunnea (Teich, 1901) (Gelechia)
carpella Piskunov, 1971 (Chionodes)
celerella (Stainton, 1851) (Gelechia)
nigricans (Heinemann, 1870) (Gelechia)
oppletella (Herrich-Schäffer, 1854) (Gelechia)
reuttiella (Heinemann, 1870) (Gelechia)
syrticola (Staudinger, 1871) (Gelechia)

Genus FILATIMA Busck, 1939

ID INFO (partial): Hodges & Adamski (1997); also Adamski et al. (2009b), Harrison & Berenbaum (2013a).

59a1076 F. abactella (Clarke, 1932) (Gelechia) 2127
59a1077 F. adamsi Hodges & Adamski, 1997 (Filatima) [NEW]
59a1078 F. albicostella Clarke, 1942 (Filatima) 2128
NOTE: *Filatima angustipennis* Sattler, 1961 was listed as a synonym of *F. albicostella* in Lee et al. (2009); it is a valid European species not recorded from NA.
59a1079 F. albilorella (Zeller, 1873) (Gelechia) 2129
trifasciella (Chambers, 1875) (Gelechia)
59a1080 F. albipectus (Walsingham, 1911) (Gelechia) 2130
59a1081 F. arizonella (Busck, 1903) (Gelechia) 2131
59a1082 F. aulaea (Clarke, 1932) (Gelechia) 2132
59a1083 F. betulae Clarke, 1947 (Filatima) 2133
59a1084 F. biforella (Busck, 1909) (Gelechia) 2134
promonitrix (Meyrick, 1927) (Gelechia)
59a1085 F. bigella (Busck, 1913) (Gelechia) 2135
spilosella (Barnes & Busck, 1920) (Gelechia)
59a1086 F. biminimaculella (Chambers, 1880) (Gelechia) 2136
59a1087 F. catacrossa (Meyrick, 1927) (Gelechia) 2137
59a1088 F. collinearis (Meyrick, 1927) (Gelechia) 2138
59a1089 F. confusatella (Darlington, 1949) (Gnorimoschema) 2139
59a1090 F. cushmani Clarke, 1942 (Filatima) 2140
59a1091 F. demissae (Keifer, 1931) (Gelechia) [NEW]
dimissae; Hodges, 1983 (Filatima) missp. *[2141]*
59a1092 F. depuratella (Busck, 1910) (Gelechia) 2142
59a1093 F. epulatrix Hodges, 1969 (Filatima) 2143
59a1094 F. frugalis (Braun, 1925) (Gelechia) 2144
59a1095 F. fuliginea (Meyrick, 1929) (Gelechia) 2145
59a1096 F. glycyrhizaeella (Chambers, 1877) (Gelechia) 2146
glycyrizaeella; (Busck, 1903) (Gelechia) missp.
lepidotae (Clarke, 1934) (Gelechia)
59a1097 F. golovina Clarke, 1947 (Filatima) 2147
59a1098 F. gomphopis (Meyrick, 1927) (Gelechia) 2148
59a1099 F. hemicrossa (Meyrick, 1927) (Gelechia) 2149
59a1100 F. inquilinella (Busck, 1910) (Gelechia) 2150
59a1101 F. isocrossa (Meyrick, 1927) (Gelechia) 2151
virgea Clarke, 1947 (Filatima)
59a1102 F. loowita Adamski, 2009 (Filatima) [NEW]
59a1103 F. monotaeniella (Bottimer, 1926) (Gelechia) 2152
59a1104 F. natalis (Heinrich, 1920) (Gelechia) 2153
59a1105 F. neotrophella (Heinrich, 1921) (Gelechia) 2154
59a1106 F. nigripectus (Walsingham, 1911) (Gelechia) 2155
59a1107 F. normifera (Meyrick, 1927) (Gelechia) 2156
59a1108 F. nucifer (Walsingham, 1911) (Gelechia) 2157
59a1109 F. obidenna Clarke, 1947 (Filatima) 2158
59a1110 F. obscuroocelella (Chambers, 1875) (Gelechia) [NEW]
obscuroocellella; (Hodges, 1983) (Gelechia) missp. *[2159]*
59a1111 F. obscurosuffusella (Chambers, 1878) (Gelechia) 2160
NOTE: This taxon was listed here as well as in *Gelechia* (MONA No. 1953) by Hodges (in Hodges et al. 1983); the latter is omitted herein. The synonym *canopulvella* was also listed in both places.
canopulvella (Chambers, 1878) (Gelechia)
epigypsa (Meyrick, 1927) (Gelechia)
monopa (Meyrick, 1927) (Gelechia)
59a1112 F. occidua Hodges & Adamski, 1997 (Filatima) [NEW]
59a1113 F. ochreosuffusella (Chambers, 1874) (Gelechia) 2161
asbolodes (Meyrick, 1927) (Gelechia)
depressostrigella (Chambers, 1874) (Gelechia)
59a1114 F. ornatifimbriella (Clemens, 1864) (Gelechia) 2162
amorphaeella (Chambers, 1877) (Gelechia)
amorphella; (Busck, 1903) (Gelechia) missp.
unctulella (Zeller, 1873) (Gelechia)
59a1115 F. perpensa Clarke, 1947 (Filatima) 2163
59a1116 F. persicaeella (Murtfeldt, 1899) (Depressaria) 2164
confusella (Chambers, 1875) (Gelechia)
59a1117 F. platyochra Clarke, 1947 (Filatima) 2165
59a1118 F. pravinominella (Chambers, 1878) (Gelechia) 2166
quadrimaculella (Chambers, 1875) (Gelechia)
59a1119 F. procedes Clarke, 1947 (Filatima) 2167
59a1120 F. prognosticata (Braun, 1925) (Gelechia) 2168
59a1121 F. pseudacaciella (Chambers, 1872) (Depressaria) 2169
caecella (Zeller, 1873) (Gelechia)
pseudoacaciella; Busck, 1903 (Filatima) missp.
59a1122 F. revisensis Harrison & Berenbaum, 2013 (Filatima) [NEW]
59a1123 F. roceliella Clarke, 1942 (Filatima) 2170
59a1124 F. saliciphaga (Keifer, 1937) (Gelechia) 2171
59a1125 F. serotinella (Busck, 1903) (Gelechia) 2172
59a1126 F. shastaella (Gaede, 1937) (Gelechia) 2173
albifemorella (Clarke, 1932) (Gelechia)
clarkella Busck, 1939 (Filatima)
59a1127 F. sperryi Clarke, 1947 (Filatima) 2174
59a1128 F. spinigera Clarke, 1947 (Filatima) 2175
59a1129 F. striatella (Busck, 1903) (Gelechia) 2176
rivulata (Meyrick, 1927) (Gelechia)
59a1130 F. tephrinopa (Meyrick, 1929) (Nothris) 2177
59a1131 F. tridentata Clarke, 1947 (Filatima) 2178
59a1132 F. vaccinii Clarke, 1947 (Filatima) 2179
59a1133 F. vaniae Clarke, 1947 (Filatima) 2180
59a1134 F. xanthuris (Meyrick, 1927) (Gelechia) 2181

Genus AROGA Busck, 1914

59a1135 A. acharnaea (Meyrick, 1927) (Gelechia) 2182
59a1136 A. alleriella Busck, 1940 (Aroga) 2183
59a1137 A. argutiola Hodges, 1974 (Aroga) 2184
59a1138 A. camptogramma (Meyrick, 1931) (Gelechia) 2185
59a1139 A. chlorocrana (Meyrick, 1927) (Gelechia) 2186
59a1140 A. compositella (Walker, 1864) (Oecophora) [NEW]
NOTE: Recognized as senior synonym of *coloradensis* by Becker (1981).
coloradensis (Busck, 1903) (Gelechia) *[2187]*
speculifera (Meyrick, 1931) (Gelechia)
59a1141 A. elaboratella (Braun, 1923) (Gelechia) [NEW]
trachycosma (Meyrick, 1923) (Gelechia) *[2197]*

59a1142 A. eldorada (Keifer, 1936) (Gelechia) 2188
eldorado; (Busck, 1939) (Gelechia) missp.
59a1143 A. epigaeella (Chambers, 1881) (Gelechia) 2189
59a1144 A. eriogonella (Clarke, 1935) (Gelechia) 2190
59a1145 A. leucanieella (Busck, 1910) (Gelechia) 2191
leucaniella; (Meyrick, 1925) (Gelechia) missp.
59a1146 A. morenella (Busck, 1908) (Gelechia) 2192
moreonella; (Keifer, 1936) (Gelechia) missp.
59a1147 A. paraplutella (Busck, 1910) (Gelechia) 2193
59a1148 A. paulella (Busck, 1903) (Gelechia) 2194
59a1149 A. rigidae (Clarke, 1935) (Gelechia) 2195
59a1150 A. thoracealbella (Chambers, 1874) (Gelechia) 2196
minimaculella (Chambers, 1874) (Gelechia)
minimmaculella; (Chambers, 1878) (Gelechia) missp.
59a1151 A. trialbamaculella (Chambers, 1875) (Gelechia) 2198
59a1152 A. trilineella (Chambers, 1877) (Gelechia) 2199
NOTE: This taxon has been listed in two places in recent checklists (Hodges, in: Hodges et al. 1983; Lee et al. 2009; Pohl et al. 2016) as a valid species and as a synonym of *Gelechia lynceella*.
bispiculata (Meyrick, 1923) (Gelechia)
hipposaris (Meyrick, 1927) (Gelechia)
59a1153 A. unifasciella (Busck, 1903) (Gelechia) 2200
59a1154 A. websteri Clarke, 1942 (Aroga) 2201
59a1155 A. xyloglypta (Meyrick, 1923) (Gelechia) 2202

Genus FASCISTA Busck, 1939

59a1156 F. bimaculella (Chambers, 1872) (Depressaria) 2203
sylvaecolella (Chambers, 1878) (Gelechia)
ternariella (Zeller, 1873) (Gelechia)
59a1157 F. cercerisella (Chambers, 1872) (Depressaria) 2204
cercerella; (Meyrick, 1925) (Gelechia) missp.
olympiadella (Zeller, 1873) (Gelechia)
59a1158 F. quinella (Zeller, 1873) (Gelechia) 2205

Genus FACULTA Busck, 1939

59a1159 F. inaequalis (Busck, 1910) (Gelechia) 2206
anisectis (Meyrick, 1923) (Gelechia)
clistrodoma (Meyrick, 1923) (Gelechia)
inaequalis (Walsingham, 1911) (Gelechia)
59a1160 F. synthetica (Walsingham, 1911) (Gelechia) [NEW]
NOTE: Added to the NA fauna by Lee et al. (2009) without further information. This species was described from Mexico (Sonora) and was collected in southern AZ by SL.
59a1161 F. triangulella (Busck, 1907) (Gelechia) 2207

Genus METOPLEURA Busck, 1912

59a1162 M. potosi Busck, 1912 (Metopleura) [NEW]
NOTE: The first NA records of this Mexican species were reported by Brown & Bash (2000), from southern CA.

Genus MIRIFICARMA Gozmány, 1955
ID INFO: Pitkin (1984).
HELINA Guenée, 1849

Mirificarma maculatella group Pitkin, 1984

59a1163 M. eburnella ([Denis & Schiffermüller], 1775) (Tinea) I [NEW]
NOTE: This otherwise European species also occurs in CA where it is presumed to be introduced (Pitkin 1984).
flamella; Hodges, 1983 (Mirificarma) missp. [2208]
flammella (Hübner, 1825) (Carcina)
formosella (Hübner, 1796) (Tinea)
rufeoformosella (Bruand d´Uzelle, 1859) (Gelechia)

Genus SOPHRONIA Hübner, 1825

59a1164 S. gelidella Nordmann, 1941 (Sophronia) H [NEW]
NOTE: This Holarctic species was discovered in NA in YT, by JFL and GRP (Landry et al. 2013).
59a1165 S. primella Busck, 1907 (Sophronia) 2213
59a1166 S. roseicrinella Busck, 1909 (Sophronia) 2214
59a1167 S. teretracma Meyrick, 1927 (Sophronia) 2215

Genus STEGASTA Meyrick, 1904

59a1168 S. bosqueella (Chambers, 1875) (Oecophora) emend. 2209
NOTE: This species has suffered many misspellings, beginning with the original description, "*basqueella*", a misspelling of Bosque County, TX. According to the ICZN, a clear misspelling can be corrected to reflect the author's explicit intentions.
basqueella; (Chambers, 1875) (Gelechia) orig. missp.
basquella; (Dyar, 1903) (Gelechia) missp.
bosquella; (Riley, 1891) (Gelechia) missp.
costipunctella (Möschler, 1890) (Gelechia)
59a1169 S. capitella Fabricius, 1794 (Stegasta) [NEW]
NOTE: Added to the NA fauna by Heppner (2007).
capitatus (Fabricius, 1798) (Ypsolophus)
rivulella (Möschler, 1890) (Gelechia)
robustella (Walker, 1864) (Gelechia)

Genus AGNIPPE Chambers, 1872
NOTE: Placed in Gelechiini by Bidzilya & Li (2010).
AGANIPPE; Chambers, 1880 missp.
EVIPPE Chambers, 1873
PHAETUSA Chambers, 1875
THOLEROSTOLA Meyrick, 1917

59a1170.1 A. abdita (Braun, 1925) (Evippe) 1768
59a1170.2 A. biscolorella Chambers, 1872 (Agnippe) 1772
59a1170.3 A. crinella Keifer, 1927 (Agnippe) 1773
59a1170.4 A. evippeella Busck, 1906 (Agnippe) 1774
59a1170.5 A. fuscopulvella Chambers, 1872 (Agnippe) 1775
59a1170.6 A. laudatella (Walsingham, 1907) (Gelechia) 1769
59a1170.7 A. leuconota (Zeller, 1873) (Gelechia) 1770
plutella (Chambers, 1875) (Phaetusa)
59a1170.8 A. prunifoliella (Chambers, 1873) (Evippe) 1771

Tribe GNORIMOSCHEMINI Povolný, 1964
ID INFO (partial): Povolný (1967, 1998a, 2003), Powell & Povolný (2001).

Genus GNORIMOSCHEMA Busck, 1900
ID INFO (partial): Miller (2000), Povolný (1985, 1998a, 2003), Powell & Povolný (2001), Metzler & Adamski (2002), Adamski et al. (2014).
LERUPSIA Riedl, 1965
NEOSCHEMA Povolný, 1967

59a1171 G. alaricella Busck, 1908 (Gnorimoschema) 1968
59a1172 G. alaskense Povolný, 1967 (Gnorimoschema) [NEW]
NOTE: Recorded by Povolný (1998a) as a junior synonym of *G. valesiella*. It was raised from synonymy by Huemer & Karsholt (2010). See also Pohl et al. (2018).
59a1173 G. albangulata Braun, 1926 (Gnorimoschema) 1969
59a1174 G. albestre Povolný, 2003 (Gnorimoschema) [NEW]
59a1175 G. albimarginella (Chambers, 1875) (Gelechia) 1970
albomarginella; (Chambers, 1878) (Gelechia) missp.
59a1176 G. ambrosiella (Chambers, 1875) (Gelechia) 1971
ambrosiaella; (Busck, 1903) (Gelechia) missp.
59a1177 G. anomale Povolný, 2003 (Gnorimoschema) [NEW]
59a1178 G. assimile Povolný, 2003 (Gnorimoschema) [NEW]
59a1179 G. aterrimum Povolný & Powell, 2001 (Gnorimoschema) [NEW]
59a1180 G. baccharisella Busck, 1903 (Gnorimoschema) 1972
59a1181 G. baccharisellоides Povolný & Powell, 2001 (Gnorimoschema) [NEW]
59a1182 G. banksiella Busck, 1903 (Gnorimoschema) 1973
59a1183 G. batanella Busck, 1903 (Gnorimoschema) 1974
59a1184 G. brachiatum Povolný, 1998 (Gnorimoschema) [NEW]
59a1185 G. brackenridgiella (Busck, 1903) (Gelechia) [NEW]
NOTE: Reinstated as a valid species by Nazari (2013).
brackenridgella; [various, no date] (Gnorimoschema) missp.
detersella (Clemens, 1860) (Gelechia) preocc.
59a1186 G. busckiella Kearfott, 1903 (Gnorimoschema) 1975
59a1187 G. clavatum Povolný, 1998 (Gnorimoschema) [NEW]
petiolatum Povolný, 1998 (Gnorimoschema) N. SYN.
NOTE: New synonymy. JFL examined the male holotypes of both nominal species, and found that they have similar genitalia and DNA barcodes, supporting their synonymy.
59a1188 G. collinusella (Chambers, 1877) (Gelechia) 1976
59a1189 G. compsomorpha Meyrick, 1929 (Gnorimoschema)1977
59a1190 G. contraria Braun, 1921 (Gnorimoschema) 1978
59a1191 G. coquillettella Busck, 1902 (Gnorimoschema) 1979
59a1192 G. crypticum Povolný & Powell, 2001 (Gnorimoschema) [NEW]
59a1193 G. curiosum Povolný, 2003 (Gnorimoschema) [NEW]
59a1194 G. debenedictisi Povolný & Powell, 2001 (Gnorimoschema) [NEW]
59a1195 G. dudiella Busck, 1903 (Gnorimoschema) 1980
59a1196 G. elatior Povolný, 2003 (Gnorimoschema) [NEW]
59a1197 G. ericameriae Keifer, 1933 (Gnorimoschema) 1982

59a1198 G. ericoidesi Povolný & Powell, 2001 (Gnorimoschema) [NEW]
59a1199 G. faustella Busck, 1910 (Gnorimoschema) 1983
59a1200 G. ferrugineum Povolný, 2003 (Gnorimoschema) [NEW]
59a1201 G. florella Busck, 1903 (Gnorimoschema) 1984
59a1202 G. foliatum Povolný, 2003 (Gnorimoschema) [NEW]
pocketosum Povolný, 2003 (Gnorimoschema) N. SYN.
NOTE: New synonymy. The holotypes of *pocketosum* and *foliatum* are the male and the female of the same species; both types were from the same rearing lot; they also have similar DNA barcodes (JFL).
59a1203 G. gallaeasterella (Kellicott, 1878) (Gelechia) 1985
ceasiella (Brodie, 1909) (Paedisca)
gallaeasteris; Meyrick, 1925 (Gnorimoschema) emend.
gallaediplopappi (Fyles, 1890) (Gelechia)
59a1204 G. gallaesolidaginis (Riley, 1869) (Gelechia) 1986
59a1205 G. gallaespeciosum Miller, 2000 (Gnorimoschema) [NEW]
59a1206 G. geminum Povolný, 2003 (Gnorimoschema) [NEW]
59a1207 G. generale Povolný, 2003 (Gnorimoschema) [NEW]
59a1208 G. gibsoniella Busck, 1915 (Gnorimoschema) 1987
59a1209 G. gracile Povolný, 2003 (Gnorimoschema) [NEW]
59a1210 G. grindeliae Povolný & Powell, 2001 (Gnorimoschema) [NEW]
59a1211 G. grisella (Chambers, 1872) (Gelechia) 1988
aurimaculella (Chambers, 1872) (Gelechia)
discomaculella (Chambers, 1872) (Gelechia)
59a1212 G. herbichii (Nowicki, 1864) (Gelechia) H [NEW]
herbichi; Povolný, 1982 (Gnorimoschema) missp.
parenthesella (Toll, 1936) (Lita)
pazsiczkyi (Rebel, 1913) (Lita)
pusilella (Rebel, 1893) (Lita)
tengstroemi (Hackman, 1946) (Phthorimaea)
tengstroemiella (Joannis, 1910) (Gelechia)
59a1213 G. huffmanellum Metzler & Adamski, 2002 (Gnorimoschema) [NEW]
59a1214 G. inexperta (Meyrick, 1925) (Phthorimaea) 1989
simpliciella (Chambers, 1875) (Gelechia)
59a1215 G. intermedium Povolný, 2003 (Gnorimoschema) [NEW]
59a1216 G. interrogationum Povolný, 2003 (Gnorimoschema) [NEW]
59a1217 G. jalavai Povolný, 1994 (Gnorimoschema) H [NEW]
NOTE: Recent addition to NA fauna by Landry et al. (2013).
59a1218 G. jocelynae Miller, 2000 (Gnorimoschema) [NEW]
59a1219 G. klotsi Povolný, 1967 (Gnorimoschema) 1990
59a1220 G. lateritium Povolný, 2003 (Gnorimoschema) [NEW]
59a1221 G. ligulatum Povolný, 1998 (Gnorimoschema) [NEW]
59a1222 G. lipatiella (Busck, 1909) (Gelechia) 1991
59a1225 G. milleriella (Chambers, 1875) (Gelechia) 1992
59a1226 G. minor (Busck, 1906) (Phthorimaea) 1993
59a1227 G. nanulum Povolný, 1998 (Gnorimoschema) [NEW]
lobatum Povolný, 1998 (Gnorimoschema) N. SYN.
NOTE: New synonymy. JFL examined the holotypes of *lobatum* and *nanulum* and found that they have similar genitalia and DNA barcodes; both male types are from the same locality and collecting date.
59a1229 G. navajorum Povolný, 2003 (Gnorimoschema) [NEW]
59a1229.1 G. nordlandicolella Strand, 1902 (Gnorimoschema) H 1994
cyceonodes (Meyrick, 1926) (Phthorimaea)
eucaustum Meyrick, 1929 (Gnorimoschema)
fennicella (Hackman, 1946) (Phthorimaea)
59a1230 G. obscurior Povolný, 1998 (Gnorimoschema) [NEW]
59a1231 G. octomaculella (Chambers, 1875) (Gelechia) 1995
59a1232 G. ovinum Povolný, 2003 (Gnorimoschema) [NEW]
59a1233 G. paternale Povolný, 2003 (Gnorimoschema) [NEW]
59a1234 G. pedmontella (Chambers, 1877) (Gelechia) 1996
59a1235 G. penetrans Povolný, 2003 (Gnorimoschema) [NEW]
59a1236 G. perditum Povolný, 2003 (Gnorimoschema) [NEW]
59a1239 G. powelli Povolný, 1998 (Gnorimoschema) [NEW]
59a1240 G. reichli Povolný, 1998 (Gnorimoschema) [NEW]
59a1241 G. rotundatum Povolný, 1998 (Gnorimoschema) [NEW]
59a1242 G. salinaris Busck, 1911 (Gnorimoschema) 1997
59a1243 G. saphirinella (Chambers, 1875) (Gelechia) 1998
59a1244 G. segregatum Povolný, 1998 (Gnorimoschema) [NEW]
spinosum Povolný, 1998 (Gnorimoschema) N. SYN.
NOTE: New synonymy. JFL examined the holotypes of *spinosum* and *segregatum* and found that they have similar genitalia and DNA barcodes; both male types are from the same locality and collecting date.
59a1245 G. semicyclionella Busck, 1903 (Gnorimoschema) 1999
59a1246 G. septentrionella Fyles, 1911 (Gnorimoschema) 2000
59a1247 G. serratipalpella (Chambers, 1877) (Gelechia) 2001
59a1248 G. shepherdiae Priest, 2014 (Gnorimoschema) [NEW]
59a1249 G. signatum Povolný, 2003 (Gnorimoschema) [NEW]
59a1250 G. siskiouense Povolný, 1985 (Gnorimoschema) [NEW]
59a1251 G. slabaughi Miller, 2000 (Gnorimoschema) [NEW]
59a1253 G. splendoriferella Busck, 1904 (Gnorimoschema) 2002
59a1254 G. sporomochla Meyrick, 1929 (Gnorimoschema) 2003
59a1255 G. stigmaticum Povolný & Powell, 2001 (Gnorimoschema) [NEW]
59a1256 G. subterranea Busck, 1911 (Gnorimoschema) 2004
59a1257 G. tediosum Povolný, 2003 (Gnorimoschema) [NEW]
59a1258 G. tenerum Povolný & Powell, 2001 (Gnorimoschema) [NEW]
enerum; Lee, Hodges & Brown, 2009 (Gnorimoschema) missp.
59a1259 G. terracottella Busck, 1900 (Gnorimoschema) 2005
59a1260 G. triforceps Povolný, 2003 (Gnorimoschema) [NEW]
59a1261 G. trilobatum Povolný, 2003 (Gnorimoschema) [NEW]
59a1262 G. triocellella (Chambers, 1877) (Gelechia) 2006
59a1263 G. tunicatum Povolný, 1998 (Gnorimoschema) [NEW]
59a1264 G. valesiella (Staudinger, 1877) (Lita) H 2007
NOTE: Continental records of this species in NA refer to *G. alaskense*. However, "true" *G. valesiella* occurs in GR (Karsholt et al. 2015).
charcoti (Meyrick, 1934) (Phthorimaea)
diabolicella (Hering, 1924) (Lita)
hackmani (Schantz, 1952) (Phthorimaea)
59a1265 G. vastifica Braun, 1926 (Gnorimoschema) 2008
59a1266 G. versicolorella (Chambers, 1872) (Depressaria) 2009
59a1267 G. vibei (Wolff, 1964) (Phthorimaea) [NEW]
NOTE: This species, described from GR, was omitted by Hodges (in Hodges et al. 1983) and Lee et al. (2009). It has since been recorded from QC (Pohl et al. 2018).
59a1268 G. wagneri Povolný, 2003 (Gnorimoschema) [NEW]
59a1269 G. washingtoniella Busck, 1904 (Gnorimoschema) 2010

Genus "GNORIMOSCHEMA" Busck, 1900 PROV. PL.

59a1269.5 G. emancipata (Meyrick, 1925) (Phthorimaea) mispl. [NEW]
marmorella (Chambers, 1875) (Gelechia)
mispl.; preocc. *[1981]*
NOTE: The name *Gelechia marmorella* Chambers, 1875 is a junior primary homonym of *Gelechia marmorella* Doubleday, 1859, and was replaced by *Phthorimaea emancipata* Meyrick, 1925. That was missed by Lee et al. (2009), but pointed out by Klaus Sattler (pers. comm.; 2018). However, this species has been misplaced; the female type is not a Gnorimoschemini, possibly a *Coleotechnites* (JFL).

Genus EURYSACCOIDES Povolný, 1998
ID INFO: Povolný (1998b).

59a1270 E. alternatus Povolný, 1998 (Eurysaccoides) [NEW]
59a1271 E. gallaespinosae Povolný, 1998 (Eurysaccoides) [NEW]

Genus PHTHORIMAEA Meyrick, 1902
ID INFO: Povolný (1993), Corro Chang & Metz (2021).
NOTE: Lee et al. (2009) listed *Tuta* Kieffer & Jörgensen, 1910 as a synonym ("rev. syn.") of *Phthorimaea*. Corro Chang & Metz (2021) used a cladistic analysis to clarify the unstable generic placement of the pestiferous *Tuta absoluta* (Meyrick, 1917) (not present in NA so far) and found that *Phthorimaea*, *Tuta*, and *Scrobipalpuloides* formed three separate groups with *absoluta* being part of a monophyletic *Phthorimaea*, whereas *Tuta* (with the extralimital *atriplicella* Kieffer & Jörgensen, 1910 as type species) constituted a separate clade, as did *Scrobipalpuloides*. As a result they recombined *absoluta* with *Phthorimaea* and reinstated *Tuta* as a separate, valid (extralimital) genus

59a1273 P. chiquitella (Busck, 1910) (Gnorimoschema) 2013
NOTE: New combination by Corro Chang & Metz (2021).
59a1273.1 P. operculella (Zeller, 1873) (Gelechia) I 2011
NOTE: This pest of Potato (*Solanum tuberosum* L.; Solanaceae) was introduced from Australia to CA by 1856, and to BC in 1966 (Povolný 1991).
argentinae Povolný, 1989 (Phthorimaea)
epicentra of authors; (not Meyrick, 1909) (Gelechia) misappl.
NOTE: The name *epicentra* was listed incorrectly as a synonym of *P. operculella* by Lee et al. (2009).
piscipellis (Howard, 1897) (Gelechia)
sedata (Butler, 1880) (Gelechia)
solanella (Boisduval, 1874) (Bryotropha)
tabacella (Ragonot, 1879) (Gelechia)
terrella (Walker, 1864) (Gelechia)

Genus SCROBIPALPULOIDES Povolný, 1987
ID INFO: Povolný (2000), Powell & Povolný (2001), Corro Chang & Metz (2021).
NOTE: Povolný, after accepting the synonymy of his own genus *Scrobipalpuloides* with *Tuta* Kieffer & Jörgensen, 1910 (Povolný 1993), later described several species (including *insularis*) under *Tuta* (Povolný 2000; Powell & Povolný 2001). Lee et al. (2009) resurrected *Scrobipalpuloides* Povolný 1987 on the basis of Hodges & Becker's (1990) proposed synonymy of *Tuta* with *Phthorimaea*, moving all seven species of *Tuta* described by Povolný (five species in Povolný 2000 and two species in Powell & Povolný 2001) under *Scrobipalpuloides*, and leaving only *operculella* under *Phthorimaea* (Lee et al. 2009: 26). Conversely, Huemer and Karsholt (2010) accepted the validity of genus *Tuta* as used by Povolný in his original description. Corro Chang & Metz (2021) recognized the validity of both *Scrobipalpuloides* and *Tuta* based on a cladistic analysis.

59a1274 S. chiquitelloides (Povolný, 2001) (Tuta) [NEW]
59a1275 S. elaborata (Povolný, 2000) (Tuta) [NEW]
59a1276 S. insularis (Povolný, 2001) (Tuta) [NEW]
59a1277 S. isolata (Povolný, 2000) (Tuta) [NEW]
59a1278 S. spinosa (Povolný, 2000) (Tuta) [NEW]
59a1279 S. totalis (Povolný, 2000) (Tuta) [NEW]
59a1280 S. truncata (Povolný, 2000) (Tuta) [NEW]

Genus SCROBIPALPULA Povolný, 1964
ID INFO (partial): Powell & Povolný (2001), Adamski et al. (2014).

59a1280.5 S. antiochia Povolný & Powell, 2001 (Scrobipalpula) [NEW]
59a1281 S. artemisiella (Kearfott, 1903) (Gnorimoschema) 2012
axenopis (Meyrick, 1919) (Phthorimaea)
59a1282 S. erigeronella (Braun, 1921) (Gnorimoschema) 2014
59a1282.1 S. gutierreziae Povolný & Powell, 2001 (Scrobipalpula) [NEW]
59a1282.2 S. henshawiella (Busck, 1903) (Gnorimoschema) 2015
ochreostrigella (Chambers, 1877) (Gelechia)
59a1283 S. hodgesi (Povolný, 1967) (Ephysteris) 2016
59a1284 S. lutescella (Clarke, 1934) (Gnorimoschema) 2017
59a1285 S. lycii (Povolný, 2001) (Scrobipalpulopsis) [NEW]
59a1286 S. manierreorum Priest, 2014 (Scrobipalpula) [NEW]
59a1287 S. ochroschista (Meyrick, 1929) (Phthorimaea) 2018
59a1288 S. physaliella (Chambers, 1872) (Gelechia) 1752
59a1289 S. polemoniella (Braun, 1925) (Phthorimaea) 2019
59a1290 S. potentella (Keifer, 1936) (Gnorimoschema) 2020
59a1291 S. psilella (Herrich-Schäffer, 1853) (Gelechia) H [NEW]
killiasii (Frey, 1880) (Gelechia)
nocturnella (Staudinger, 1959) (Gelechia)
pallidella (Heinemann, 1870) (Lita)
59a1295 S. radiatella (Busck, 1904) (Gnorimoschema) 2021
59a1296 S. sacculicola (Braun, 1925) (Phthorimaea) 2022
59a1297 S. semirosea (Meyrick, 1929) (Gnorimoschema) 2023

Genus SCROBIPALPA Janse, 1951
ID INFO (partial): Powell & Povolný (2001).
NOTE: This genus was synonymized and then resurrected recently; see Povolný (1998a), Powell & Povolný (2001), and newer works. Lee et al. (2009) is followed here.
ERGASIOLA Povolný, 1967
EUSCROBIPALPA Povolný, 1967

59a1298 S. acuminatella (Sircom, 1850) (Gelechia) H/I [NEW]
NOTE: Holarctic or introduced; a recent addition to NA fauna (Landry et al. 2013).
cirsiella (Stainton, 1851) (Gelechia)
gracilella (Stainton, 1871) (Gelechia)
ingloriella (Heinemann, 1870) (Lita)
porcella (Heinemann, 1870) (Lita)
pulliginella (Sircom, 1850) (Gelechia)
59a1299 S. arenaceariella (Povolný & Powell, 2001) (Euscrobipalpa) [NEW]
59a1300 S. artemisiella (Treitschke, 1833) (Lita) H [NEW]
ancillella (Bruand, 1851) (Anacampsis)
mongolensis Povolný, 1969 (Scrobipalpa)
paniculatella (Novickij, 1924) (Lita)
59a1301 S. atriplex (Busck, 1910) (Gnorimoschema) 2024
59a1302 S. atriplicella (Fischer von Röslerstamm, 1839) (Lita) H 2025
altajica Povolný, 1969 (Scrobipalpa)
arogantella Povolný, 1967 (Scrobipalpa)
atrella (Thunberg, 1788) (Tinea)
chenopodiella (Busck, 1916) (Gnorimoschema)
infumatella (Fuchs, 1901) (Lita)
59a1303 S. consueta (Braun, 1925) (Gnorimoschema) 2026
59a1304E S. instabilella (Douglas, 1846) (Anacampsis) EXCL. [NEW]
NOTE: The CA and SK records reported by Povolný (1998a) represent two unrelated species, neither of which is the "true" *S. instabilella*, which is strictly Palaearctic. See Huemer & Karsholt (2010).
59a1305 S. macromaculata (Braun, 1925) (Gnorimoschema) 2027
59a1306 S. monumentella (Chambers, 1877) (Gelechia) 2028
59a1307 S. obsoletella (Fischer von Röslerstamm, 1841) (Lita) I 2029
NOTE: Introduced from Europe (Powell & Povolný 2001).
bipunctella (Hartig, 1941) (Phthorimaea)
calaritanella (Amsel, 1952) (Phthorimaea)
hospes Povolný, 1964 (Scrobipalpa)
miscitatella (Clarke, 1932) (Gnorimoschema)
59a1308 S. scutellariaeella (Chambers, 1873) (Gelechia) [NEW]
scutellariaeela; Hodges, 1983 (Scrobipalpa) missp.
[2030]

Genus INSULOSCHEMA Povolný, 2004
ID INFO: Povolný (2004).

59a1309 I. barbarae Povolný, 2004 (Insuloschema) [NEW]

Genus AGONOCHAETIA Povolný, 1965
ID INFO: Landry et al. (2017).
SAUTEREOPSIS Povolný, 1965

59a1310 A. conspersa (Braun, 1921) (Gelechia) 2053
59a1310.1 A. shawinigan Landry, 2017 (Agonochaetia) [NEW]

Genus NEVADOPALPA Povolný, 1998
ID INFO: Povolný (1999a).

59a1311 N. alboaura Povolný, 1999 (Nevadopalpa) [NEW]
59a1312 N. albula Povolný, 1998 (Nevadopalpa) [NEW]
59a1313 N. deaurata Povolný, 1999 (Nevadopalpa) [NEW]
59a1314 N. maculata Povolný, 1999 (Nevadopalpa) [NEW]
59a1315 N. minor Povolný, 1998 (Nevadopalpa) [NEW]
59a1316 N. nevadana Povolný, 1999 (Nevadopalpa) [NEW]
59a1317 N. striata Povolný, 1998 (Nevadopalpa) [NEW]

Genus EPHYSTERIS Meyrick, 1908
ID INFO: Povolný (1999b, as Microcraspedus).
MICROCRASPEDUS Janse, 1958

59a1318 E. fontosus (Povolný, 1999) (Microcraspedus) [NEW]
59a1319 E. powelli (Povolný, 1999) (Microcraspedus) [NEW]

Genus NEOPALPA Povolný, 1998
ID INFO: Nazari (2017).

59a1320 N. neonata Povolný, 1998 (Neopalpa) [NEW]
59a1320.1 N. donaldtrumpi Nazari, 2017 (Neopalpa) [NEW]

Genus EXCEPTIA Povolný, 1967
ID INFO: Powell & Povolný (2001).

59a1321 E. neopetrella (Keifer, 1936) (Gnorimoschema) 2031
59a1322 E. sisterina Povolný & Powell, 2001 (Exceptia) [NEW]

Genus SYMMETRISCHEMA Povolný, 1967
ID INFO (partial): Blanchard & Knudson (1982).

59a1323 S. capsica (Bradley & Polovný, 1965) (Gnorimoschema) N/I 2032
59a1323.1 S. costaricanum Povolný, 1990 (Symmetrischema) [NEW]
NOTE: Historical records of *S. costaricanum* had been misidentified as *S. tangolias* or its synonym *S. plaesiosema* (JFL). Based on examination of types, "true" *S. tangolias* does not occur in NA.
plaesiosema of authors; (not Turner, 1919) (Phthorimaea) misappl. *[2038]*
tangolias of authors; (not Gyen, 1913) (Trichotaphe) misappl.
59a1324 S. fercularia (Meyrick, 1929) (Gnorimoschema) 2033
59a1325 S. inexpectatum Povolný, 1967 (Symmetrischema) 2034
59a1326 S. kendallorum Blanchard & Knudson, 1982 (Symmetrischema) [NEW]
59a1328 S. lectulifera (Meyrick, 1929) (Gnorimoschema) 2036
59a1329 S. pallidochrella (Chambers, 1872) (Depressaria) 2037
lavernella (Chambers, 1874) (Gelechia) N. SYN. *[2035]*
NOTE: New synonymy (and revised synonymy of *S. physalivorella*) based on examination of type specimens (JFL).
physalivorella (Chambers, 1875) (Gelechia) REV. SYN.

59a1330 S. striatella (Murtfeldt, 1900) (Eucatoptus) 2039

Genus CARYOCOLUM Gregor & Povolný, 1954
ID INFO: Huemer (1988).

Caryocolum marmorea group Huemer, 1988

59a1332 C. marmorea (Haworth, 1828) (Recurvaria) H/I [NEW]
manniella (Zeller, 1839) (Gelechia)
59a1333 C. pullatella (Tengström, 1848) (Phthorimaea) H [NEW]
agricolaris (Meyrick, 1933) (Gelechia)
livoniella (Teich, 1898) (Lita)
pulla (Tengström, 1848) (Gelechia)
subtractella (Walker, 1864) (Gelechia) *[2042]*
59a1334 C. protecta (Braun, 1965) (Gnorimoschema) 2041

Caryocolum interalbicella group Huemer, 1988

59a1335 C. nearcticum Huemer, 1988 (Caryocolum) [NEW]
59a1336 C. proxima (Haworth, 1828) (Recurvaria) H/I [NEW]
horticola (Peyerimhoff, 1871) (Gelechia)
maculiferella (Douglas, 1851) (Gelechia)
maculivicinella (Bruand d´Uzelle, 1859) (Gelechia)

Caryocolum cassella group Huemer, 1988

59a1337 C. cassella (Walker, 1864) (Gelechia) H/I 2040
albifasciella (Toll, 1936) (Lita)
falellum Piskunov, 1975 (Caryocolum)
melanotephrella (Erschoff, 1877) (Gelechia)
subvicinella (Hackman, 1946) (Phthorimaea)

Genus SCROBIPALPOPSIS Povolný, 1967
ID INFO (partial): Powell & Povolný (2001).

59a1338 S. arnicella (Clarke, 1942) (Gnorimoschema) 2043
59a1339 S. interposita Povolný & Powell, 2001 (Scrobipalpopsis) [NEW]
59a1340 S. madiae Povolný & Powell, 2001 (Scrobipalpopsis) [NEW]
59a1341 S. petrella (Busck, 1915) (Gnorimoschema) 2045
59a1342 S. tetradymiella (Busck, 1903) (Gnorimoschema) 2046

Genus KEIFERIA Busck, 1939
ID INFO (partial): Hodges (1985b), Povolný (2004).
TILDENIA Povolný, 1967

59a1343 K. altisolani (Keifer, 1937) (Gnorimoschema) 2048
altisulani; Povolný, 1967 (Keiferia) missp.
59a1344 K. educata Povolný, 2004 (Keiferia) [NEW]
59a1345 K. elmorei (Keifer, 1936) (Gnorimoschema) [NEW]
NOTE: Raised from synonymy of *K. lycopersicella* by Powell & Povolný (2001).
59a1346 K. georgei (Hodges, 1985) (Tildenia) [NEW]
59a1347 K. glochinella (Zeller, 1873) (Gelechia) 2049
peniculo Heinrich, 1946 (Keiferia)
59a1348 K. inconspicuella (Murtfeldt, 1883) (Gelechia) 2050
cinerella (Murtfeldt, 1881) (Gelechia)
59a1349 K. lycopersicella (Walsingham, 1897) (Eucatoptus) I 2047
NOTE: Introduced; native to the West Indies (Mason & Huber 2002).
lenta (Meyrick, 1917) (Phthorimaea)
lycopersicella (Busck, 1928) (Phthorimaea)
59a1350 K. powelli Povolný, 2004 (Keiferia) [NEW]

Genus FRUMENTA Busck, 1939
ID INFO: McCarty et al. (2020).

59a1351 F. nephelomicta (Meyrick, 1930) (Asapharcha) 2051
solanophaga Adamski & Brown, 2002 (Frumenta)
59a1352 F. nundinella (Zeller, 1873) (Gelechia) 2052
beneficentella (Murtfeldt, 1881) (Gelechia)
59a1352.1 F. davidi McCarty, 2020 (Frumenta) [NEW]
59a1352.2 F. dianeae McCarty, 2020 (Frumenta) [NEW]

54. Family PTEROLONCHIDAE Meyrick, 1918

by Lauri Kaila

This small group of very small to small moths (wingspans of about 10 to 15 mm) is defined by characters in male and female genitalia, as well as by DNA sequence data. Pterolonchidae *sensu stricto* was grouped as a subfamily within Coleophoridae by Hodges (1999a). It was redefined by Heikkilä et al. (2014) to comprise several groups previously thought unrelated. Coelopoetinae was included in Oecophorinae by Hodges (1999a). Hodges (in Hodges et al. 1983) and Hodges (1999a) included *Homaledra* in Batrachedrinae which was treated either as a subfamily of Coleophoridae (Hodges, in: Hodges et al. 1983) or as family Batrachedridae (Hodges 1999a). *Homaledra* was moved to an unresolved position within Pterolonchidae by Heikkilä et al. (2014).

Two subfamilies and one unplaced genus, *Homaledra*, occur in NA. About 30 species of Pterolonchidae are known worldwide, nine of which are known in NA.

Subfamily PTEROLONCHINAE Meyrick, 1918

Genus PTEROLONCHE Zeller, 1847

59a1352.3 P. inspersa Staudinger, 1859 (Pterolonche) I [NEW]
NOTE: Introduced from Europe to control knapweed (*Centaurea* spp.; Asteraceae); Weeden et al. (2002) surmised that it may not be established but several recent CNC records from BC between 2006 and 2014, some of which have had DNA examined, show otherwise (JFL, in litt.).

Subfamily COELOPOETINAE Hodges, 1978

ID INFO: Kaila (1995a).

Genus COELOPOETA Walsingham, 1907

59a1352.41 C. glutinosi Walsingham, 1907 (Coelopoeta) 1076
baldella Barnes & Busck, 1920 (Coelopoeta)
59a1352.42 C. phaceliae Kaila, 1995 (Coelopoeta) [NEW]
59a1352.43 C. maiadella Kaila, 1995 (Coelopoeta) [NEW]

[PTEROLONCHIDAE – Unplaced to Subfamily]

Genus HOMALEDRA Busck, 1900

ID INFO: Hayden (2021).
NOTE: *Homaledra* was moved from Batrachedridae to an unresolved position within Pterolonchidae by Heikkilä et al. (2014).

59a1352.51 H. heptathalama Busck, 1900 (Homaledra) 1421
59a1352.52 H. sabalella (Chambers, 1880) (Coleophora) 1422
59a1352.53 H. howardi Hayden, 2021 (Homaledra) [NEW]
59a1352.54 H. knudsoni Hayden, 2021 (Homaledra) [NEW]
59a1352.55 H. octagonella (Walsingham, 1882) (Coleophora) 1398
NOTE: Transferred from *Coleophora* by Baldizzone et al. (2006).

ELACHISTID ASSEMBLAGE OF FAMILIES Pohl, Kaila & Landry, 2023

55. Family ELACHISTIDAE Bruand, 1851 (grass moths)

by Lauri Kaila & Sjaak Koster

Grass moths are very small to small moths, with wingspans of 6 to 33 mm. They are represented by two subfamilies: Elachistinae and Parametriotinae, which are united by several genital and pupal characters as well as being endophagous and having narrow wings (Heikkilä et al. 2014). The Elachistinae are extremely small to very small narrow-winged moths, with wingspans of about 6 to 15 mm. The hindwings are lanceolate and broadly fringed, and the head is usually smooth scaled. Parametriotinae adults are generally larger, with wingspans of 8 to 33 mm and are highly variable in other characters. Larvae of Elachistinae are leaf miners, mostly of monocots such as grasses, sedges, and rushes. Larvae of Parametriotinae are twig- or bark-borers, gall makers, or miners on a variety of plant families.

Several groups that had historically been included within Elachistidae (Stenomatinae, Ethmiinae, and Depressariinae) have been moved recently to the Depressariidae.

Elachistids are distributed worldwide, with about 1,075 described species. There are 153 species known in the Nearctic region. Most Nearctic species of the subfamily Elachistinae have been revised recently by Kaila (1995b, 1996, 1997, 1999a, 1999b), and Kaila (2019) provides a checklist of species in that subfamily. Koster & van Nieukerken (2017) published a generic catalog of the subfamily Parametriotinae.

Subfamily ELACHISTINAE Bruand, 1851

Genus PERITTIA Stainton, 1854
ID INFO: Kaila (1995b).

ANNETTENIA Traugott-Olsen, 1995
NOTE: Synonymy by Kaila (1999a) was overlooked by Pohl et al. (2016).
ARISTOPTILA Meyrick, 1932
BRADLEYANA Traugott-Olsen, 1995
GAUTENGIA Kemal & Koçak, 2006
HABELERIA Traugott-Olsen, 1995
KUZNETSOVIANA Traugott-Olsen, 1996
MENDESIA Joannis, 1902
ONCEROPTILA Braun, 1948
PERITTOIDES Sinev, 1992
PHTHINOSTOMA Meyrick, 1914
POLYMETIS Walsingham, 1908
PRETORIANA Traugott-Olsen, 1995
SCIRTOPODA Wocke, 1876
SINEVIANA Traugott-Olsen, 1995
SRUOGANIA Traugott-Olsen, 1995
SWEZEYULA Zimmerman & Bradley, 1950
SYMPHORISTIS Meyrick, 1918
TRIBOLONEURA Walsingham, 1908
WHITEBREADIA Traugott-Olsen, 1995
ZEMIOCRITA Meyrick, 1933

59a1353 P. cygnodiella (Busck, 1921) (Aphelosetia) 1077
clarkei Traugott-Olsen, 1995 (Perittia)
NOTE: Synonymy by Kaila (1999a) was overlooked by Pohl et al. (2016).
59a1354 P. herrichiella (Herrich-Schäffer, 1855) (Tinagma) I [NEW]
NOTE: Introduced from Europe to eastern Canada (Kaila 1995b).
59a1355 P. passula Kaila, 1995 (Perittia) [NEW]
59a1356 P. serica (Kaila, 1995) (Mendesia) [NEW]
59a1357 P. metaxea (Kaila, 1995) (Mendesia) [NEW]
59a1359 P. eremonoma (Braun, 1948) (Onceroptila) 1078

Genus STEPHENSIA Stainton, [1857] 1858

AUSTRIANA Traugott-Olsen, 1995
CANARIANA Traugott-Olsen, 1995
GIBRALTARENSIS Traugott-Olsen, 1996
HOLSTIA Traugott-Olsen, 1995
KEARFOTTIA Traugott-Olsen, 1996
KUMIA Falkovitsh, 1986

59a1360 S. cunilae Braun, 1930 (Stephensia) 1079
59a1361 S. major (Kearfott, 1907) (Antispila) 238

Genus ELACHISTA Treitschke, 1833
ID INFO: Kaila (1999a; subgenera [no known key to species groups]).

APHIGALIA Dyar, [1903]
ATRINIA Sinev, 1992
BISELACHISTA Traugott-Olsen & Nielsen, 1977
CLEROPTILA Meyrick, 1914
COSMIOTES Clemens, 1860
CYCNODIA Herrich-Schäffer, 1853
DICASTERIS Meyrick, 1906
DICRANOCTETES Braun, 1918
DONACIVOLA Busck, 1934
ELACHISTOIDES Sruoga, 1992
EUPNEUSTA Bradley, 1974
EUPROTEODES Viette, 1954
HECISTA Wallengren, 1881
ILLANTIS Meyrick, 1921
IRENICODES Meyrick, 1919
NEAERA Chambers, 1880
PHIGALIA Chambers, 1875
PLATYPHYLLIS Meyrick, 1932
PTILODOXA Meyrick, 1921
SVENSSONIA Parenti, 2009

Subgenus HEMIPROSOPA Braun, 1948

59a1362 E. dasycara Kaila, 1999 (Elachista) [NEW]
NOTE: Listed twice by Hodges (in Hodges et al. 1983), here and as *Philonome albella* Chambers, 1877 (Lyonetiidae; MONA No. 464). The latter is omitted from the current list. *Philonome albella* was specifically excluded from Yponomeutoidea by Sohn et al. (2013); it was moved to *Elachista* and given the replacement name *E. dasycara* by Kaila (1999a) (it is a secondary junior homonym of *Tinea albella* Müller, 1776).
albella (Chambers, 1877) (Eurynome) preocc. [1080]

Subgenus DIBRACHIA Sinev & Sruoga, 1992

59a1362.1 E. dissona Kaila, 1997 (Elachista) [NEW]
59a1362.2 E. arena Kaila, 1997 (Elachista) [NEW]

Subgenus APHELOSETIA Stephens, 1834

Elachista argentella group Kaila, 1997
ID INFO: Kaila (1997).

59a1363 E. subalbidella Schläger, 1847 (Elachista) H [NEW]
hiberna Braun, 1948 (Elachista) [1098]
nebulella Stainton, 1851 (Elachista)
ochreella Stainton, 1849 (Elachista)
subochrella (Herrich-Schäffer, 1855) (Poeciloptilia)
subochrella Morris, 1870 (Elachista)
59a1364 E. patriodoxa Meyrick, 1932 (Elachista) 1099
59a1365 E. lomionella Kaila, 1997 (Elachista) [NEW]

59a1368 E. ossuaria Kaila, 1997 (Elachista) [NEW]
59a1369 E. aspila Kaila, 1997 (Elachista) [NEW]
59a1370 E. loriella Kaila, 1997 (Elachista) [NEW]
59a1371 E. coniophora Braun, 1948 (Elachista) 1097
59a1372 E. argillacea Kaila, 1997 (Elachista) [NEW]
59a1373 E. orestella Busck, 1908 (Elachista) 1083
59a1374 E. aurocristata Braun, 1921 (Elachista) 1086
59a1375 E. symmorpha Braun, 1948 (Elachista) 1082
59a1376 E. synopla Braun, 1948 (Elachista) 1084
59a1377 E. ischnella Kaila, 1997 (Elachista) [NEW]
59a1378 E. nubila Kaila, 1997 (Elachista) [NEW]
59a1379 E. anagna Kaila, 1997 (Elachista) [NEW]
59a1380 E. triangulifera Kaila, 1997 (Elachista) [NEW]
59a1381 E. acenteta Braun, 1948 (Elachista) 1091
59a1382 E. aphyodes Kaila, 1997 (Elachista) [NEW]
59a1383 E. controversa Braun, 1923 (Elachista) 1087
59a1384 E. hololeuca Braun, 1948 (Elachista) 1092
59a1385 E. lamina Braun, 1948 (Elachista) 1094
59a1386 E. sabulella Kaila, 1997 (Elachista) [NEW]
59a1387 E. granosa Kaila, 1997 (Elachista) [NEW]
59a1388 E. griseicornis Meyrick, 1932 (Elachista) 1090
59a1389 E. adianta Kaila, 1997 (Elachista) [NEW]
59a1390 E. nucula Kaila, 1997 (Elachista) [NEW]
59a1391 E. adempta Braun, 1948 (Elachista) 1089
albella (Chambers, 1875) (Laverna)
albella (Chambers, 1880) (Neaera)
59a1392 E. scobifera Kaila, 1997 (Elachista) [NEW]
59a1393 E. apina Kaila, 1997 (Elachista) [NEW]
59a1394 E. achrantella Kaila, 1997 (Elachista) [NEW]
59a1395 E. epimicta Braun, 1948 (Elachista) 1081
purissima Braun, 1948 (Elachista) *[1093]*
59a1396 E. perniva Kaila, 1997 (Elachista) [NEW]
59a1397 E. virgatula Kaila, 1997 (Elachista) [NEW]
albella (Chambers, 1875) (Phigalia) preocc. *[1088]*
NOTE: Listed twice by Hodges (in Hodges et al. 1983), here and as *Mompha albella* Chambers, 1875 (Momphidae; MONA No. 1424) (the latter is omitted from the current list). It is a secondary junior homonym of *Tinea albella* Müller, 1776.
59a1398 E. inopina Kaila, 1997 (Elachista) [NEW]
59a1399 E. conidia Kaila, 1997 (Elachista) [NEW]
59a1400 E. lurida Kaila, 1997 (Elachista) [NEW]
59a1401 E. thelma Kaila, 1997 (Elachista) [NEW]
59a1402 E. louisella Kaila, 1997 (Elachista) [NEW]
59a1403 E. sincera Braun, 1925 (Elachista) 1095
59a1404 E. spatiosa Braun, 1948 (Elachista) 1085

Subgenus ELACHISTA Treitschke, 1833

Elachista bifasciella group Traugott-Olsen & Nielsen, 1977
ID INFO: Kaila (1999b).

59a1405 E. leucofrons Braun, 1920 (Elachista) 1108
59a1406 E. dagnirella Kaila, 1999 (Elachista) [NEW]
59a1407 E. aerinella Kaila, 1999 (Elachista) [NEW]
59a1408 E. albicapitella Engel, 1907 (Elachista) 1109
59a1409 E. haldarella Kaila, 1999 (Elachista) [NEW]
59a1410 E. stramineola Braun, 1921 (Elachista) 1107
59a1411 E. morwenella Kaila, 1999 (Elachista) [NEW]
59a1412 E. marachella Kaila, 1999 (Elachista) [NEW]
59a1413 E. telcharella Kaila, 1999 (Elachista) [NEW]
59a1414 E. finarfinella Kaila, 1999 (Elachista) [NEW]
59a1415 E. indisella Kaila, 1999 (Elachista) [NEW]
59a1416 E. gildorella Kaila, 1999 (Elachista) [NEW]
59a1417 E. tauronella Kaila, 1999 (Elachista) [NEW]
59a1418 E. alpinella Stainton, 1854 (Elachista) H [NEW]
latipennella (Herrich-Schäffer, 1855) (Poeciloptilia)
monticola Wocke, 1876 (Elachista)
oxytypa Braun, 1948 (Elachista) *[1102]*
subquadrella Ragonot, 1889 (Elachista)
turfosella Frey, 1885 (Elachista)
59a1419 E. fuliginea Braun, 1948 (Elachista) 1101
59a1420 E. kilmunella Stainton, 1849 (Elachista) H [NEW]
stagnalis Frey, 1859 (Elachista)
59a1421 E. excelsicola Braun, 1948 (Elachista) H 1106
parasella Traugott-Olsen, 1974 (Elachista)
59a1422.1 E. stelviella Amsel, 1932 (Elachista) H [NEW]
ingvarella Traugott-Olsen, 1974 (Elachista)
zernyi Hartig, 1941 (Elachista)
59a1423 E. irrorata Braun, 1920 (Elachista) 1100
philopatris Meyrick, 1932 (Elachista)
59a1424 E. olorinella Kaila, 1999 (Elachista) [NEW]
59a1425 E. maritimella McDunnough, 1942 (Elachista) 1113
59a1426 E. curufinella Kaila, 1999 (Elachista) [NEW]
59a1427 E. ragnorella Kaila, 1999 (Elachista) [NEW]
59a1428 E. gorlimella Kaila, 1999 (Elachista) [NEW]
59a1429 E. maculoscella (Clemens, 1860) (Cosmiotes) 1105
nitidiuscula Braun, 1948 (Elachista) *[1111]*
unifasciella Chambers, 1875 (Elachista) *[1104]*
59a1430 E. sylvestris Braun, 1920 (Elachista) 1110
59a1431 E. cana Braun, 1920 (Elachista) 1115
59a1432 E. amideta Braun, 1948 (Elachista) 1116
59a1433 E. maglorella Kaila, 1999 (Elachista) [NEW]
59a1434 E. bregorella Kaila, 1999 (Elachista) [NEW]
59a1435 E. caranthirella Kaila, 1999 (Elachista) [NEW]
59a1436 E. turgonella Kaila, 1999 (Elachista) [NEW]
59a1437 E. arthadella Kaila, 1999 (Elachista) [NEW]
59a1438 E. telerella Kaila, 1999 (Elachista) [NEW]
59a1439 E. dolabella Kaila, 1999 (Elachista) [NEW]
59a1440 E. cicadella Kaila, 1999 (Elachista) [NEW]
59a1441 E. celegormella Kaila, 1999 (Elachista) [NEW]
59a1442 E. daeronella Kaila, 1999 (Elachista) [NEW]
59a1443 E. aredhella Kaila, 1999 (Elachista) [NEW]
59a1444 E. amrodella Kaila, 1999 (Elachista) [NEW]
59a1445 E. diorella Kaila, 1999 (Elachista) [NEW]

Elachista praelineata group Kaila, 1999
ID INFO: Kaila (1999b).

59a1446 E. radiantella Braun, 1922 (Elachista) 1120
59a1447 E. solitaria Braun, 1922 (Elachista) 1119
59a1448 E. praelineata Braun, 1915 (Elachista) 1118
59a1449 E. ibunella Kaila, 1999 (Elachista) [NEW]
59a1450 E. eilinella Kaila, 1999 (Elachista) [NEW]
59a1451 E. guilinella Kaila, 1999 (Elachista) [NEW]
59a1452 E. aristoteliella Kaila, 1999 (Elachista) [NEW]
59a1453 E. turinella Kaila, 1999 (Elachista) [NEW]
59a1454 E. nienorella Kaila, 1999 (Elachista) [NEW]
59a1455 E. aranella Kaila, 1999 (Elachista) [NEW]
59a1456 E. miriella Kaila, 1999 (Elachista) [NEW]
59a1457 E. serindella Kaila, 1999 (Elachista) [NEW]
59a1457.1 E. staintonella Chambers, 1878 (Elachista) 1114

Elachista saccharella group Kaila, 1999
ID INFO: Kaila (1999b).

59a1458 E. brachyelytrifoliella Clemens, 1864 (Elachista) 1132
brachyelythrifoliella; Kaila, 1999 (Elachista) missp.
59a1459 E. uniolae Kaila, 1999 (Elachista) [NEW]
59a1460 E. hedionella Kaila, 1999 (Elachista) [NEW]
59a1461 E. suavella Kaila, 1999 (Elachista) [NEW]
59a1462 E. helodella Kaila, 1999 (Elachista) [NEW]
59a1463 E. angularis (Braun, 1918) (Dicranoctetes) [NEW]
59a1464 E. saccharella (Busck, 1934) (Donacivola) I [NEW]
NOTE: Introduced from the West Indies, first reported from NA in FL in 1982 and in LA in 2006 (White et al. 2007) (contributed by JDY).
59a1465 E. dulcinella Kaila, 1999 (Elachista) [NEW]

Elachista freyerella group Kaila, 1999
ID INFO: Kaila (1999b).

59a1466 E. freyerella (Hübner, [1825]) (Antispila) H [NEW]
aridella Heinemann, 1854 (Elachista)
arundinella Zeller, 1850 (Elachista)
bistictella Tengström, 1848 (Elachista)
gregsonella Doubleday, 1859 (Elachista)
gregsonella Morris, 1870 (Elachista)
gregsoni Stainton, 1855 (Elachista)
grisescens (Wocke, 1862) (Poeciloptilia)
incertella Frey, 1859 (Elachista)
nigrella (Hübner, 1805) (Tinea)
scopulicola (Braun, 1948) (Cosmiotes) *[1131]*
sublimis Frey, 1866 (Elachista)
tristictella Nylander, 1848 (Elachista)
59a1467 E. illectella (Clemens, 1860) (Cosmiotes) 1129
albapalpella Chambers, 1881 (Elachista)
cristatella Chambers, 1876 (Elachista)
praematurella Clemens, 1860 (Elachista)
59a1468 E. beorella Kaila, 1999 (Elachista) [NEW]

59a1469 E. herbigrada Braun, 1925 (Elachista) 1130
59a1470 E. neithanella Kaila, 1999 (Elachista) [NEW]
59a1471 E. tuorella Kaila, 1999 (Elachista) [NEW]
59a1472 E. galadella Kaila, 1999 (Elachista) [NEW]
59a1473 E. rianella Kaila, 1999 (Elachista) [NEW]

Elachista tetragonella group Kaila, 1996
ID INFO: Kaila (1996).

59a1474 E. pyrrha Kaila, 1996 (Elachista) [NEW]
59a1475 E. leucosticta Braun, 1948 (Elachista) 1126
59a1476 E. absaroka Kaila, 1996 (Elachista) [NEW]
59a1477 E. calusella Kaila, 1996 (Elachista) [NEW]
59a1478 E. cucullata Braun, 1921 (Elachista) 1124
59a1479 E. agilis Braun, 1921 (Elachista) 1125
59a1480 E. albidella Nylander, 1848 (Elachista) H [NEW]
rhyncosporella (Stainton, 1848) (Aphelosetia)
tanyopis Meyrick, 1932 (Elachista) *[1127]*
uliginosella (Herrich-Schäffer, 1855) (Poeciloptilia)
59a1481 E. salinaris Braun, 1925 (Elachista) 1128
59a1482 E. inaudita Braun, 1927 (Elachista) 1117
59a1483 E. eleochariella Stainton, 1851 (Elachista) H [NEW]
59a1484 E. beothucella Kaila, 1996 (Elachista) [NEW]
59a1485 E. glenni Kaila, 1996 (Elachista) [NEW]
59a1486 E. cerasella Kaila, 1996 (Elachista) [NEW]
59a1487 E. huron Kaila, 1996 (Elachista) [NEW]
59a1488 E. serra Kaila, 1996 (Elachista) [NEW]
59a1489 E. vinlandica Kaila, 1996 (Elachista) [NEW]
59a1490 E. ciliigera Kaila, 1996 (Elachista) [NEW]
59a1491 E. lenape Kaila, 1996 (Elachista) [NEW]
59a1492 E. pelaena Kaila, 1996 (Elachista) [NEW]

Subgenus ATACHIA Wocke, 1876

Elachista gleichenella group Kaila, 1999

59a1496 E. madarella (Clemens, 1860) (Cosmiotes) 1121
59a1497 E. enitescens Braun, 1921 (Elachista) 1122
59a1498 E. argentosa Braun, 1920 (Elachista) 1123

[Elachista ungrouped]

59a1498.1 E. pusilla Frey & Boll, 1876 (Elachista) ident. uncert. 1103
NOTE: Listed by Braun (1948) as an unrecognized species. It may not belong in Elachistidae but it is retained here provisionally following Braun (1948).

Subfamily PARAMETRIOTINAE Căpuşe, 1971

Genus BLASTODACNA Wocke, [1876] 1877
SINITINEA Yang, 1977

59a1501 B. bicristatella (Chambers, 1875) (Gelechia) 1460
placendiella (Busck, 1908) (Batrachedra)
sublustris (Meyrick, 1922) (Colonophora)
59a1502 B. atra (Haworth, 1828) (Recurvaria) H/I [NEW]
NOTE: This introduced or Holarctic species was first reported from NA (QC) by Handfield (1999).
putripennella (Zeller, 1839) (Elachista)

Genus CHRYSOCLISTA Stainton, 1854
ID INFO: Koster (2002).
GLYPHIPTERYX Curtis, 1827

59a1503 C. grandis Koster, 2002 (Chrysoclista) [NEW]
59a1504 C. cambiella (Busck, 1915) (Psacaphora) 1462
59a1505 C. villella (Busck, 1904) (Cosmopteryx) 1464
59a1506 C. linneella (Clerck, 1759) (Phalaena) I 1463
NOTE: Introduced from Europe (Koster 2002).
gemmatella (Costa, [1836]) (Elachista)
linnaeella; (Zeller, 1839) (Elachista) emend.
obscurilinneella (Bruand, 1859) (Lita) emend.
schaefferella (Duponchel, 1838) (Oecophora)
59a1506.1 C. lathamella Fletcher, 1936 (Chrysoclista) UNVER. H? [NEW]
NOTE: Reported from NA by Pohl & Landry (in Pohl et al. 2018) based on a BOLD record from Wood Buffalo National Park, AB. However, BOLD contains 2 BINs determined as *C. lathamella* (The Wood Buffalo specimen as well as a Palaearctic specimen are AAP8179). The record was shown in a BOLD cladogram in Šumpich & Huemer (2016), but they make no claim of it being correct and they list *C. lathamella* as occurring only in the Palaearctic. This is probably an unnamed Holarctic species. The name *lathamella* is a replacement name for *Tinea bimaculella* Haworth, 1828, a junior homonym of *T. bimaculella* Thunberg, 1794.
bimaculella (Haworth, 1828) (Tinea)
razowskii Riedl, 1965 (Chrysoclista)

Genus HAPLOCHROIS Meyrick, 1897
AETIA Chambers, 1880
CHAETOCAMPA Busck, in: Bottimer, 1926
PANCLINTIS Meyrick, 1929
PARAMETRIOTES Kusnezov, 1916
PLATYBATHRA Meyrick, 1911
RHADINASTIS Meyrick, 1897
SYNTETRERNIS Meyrick, 1922
TETANOCENTRIA Rebel, 1902

59a1507 H. bipunctella (Chambers, 1880) (Aetia) 1465
crotonella (Bottimer, 1926) (Chaetocampa)
59a1508 H. biminimmaculella (Chambers, 1878) (Coleophora) 1394
NOTE: This species was removed from *Coleophora* by Baldizzone et al. (2006).

56. Family COLEOPHORIDAE Bruand, 1851 (casebearer moths)

by Jean-François Landry

Coleophorids are very small to small moths that usually have narrow, strongly pointed wings that span 6 to 20 mm. Adults of most species rest in a slightly upright posture with the head held high and the antennae appressed straight together in front of the head. Most coleophorid larvae are leaf miners, feeding internally in the first instar, then building cryptic cases out of silk, excrement, pieces of leaves or seeds, or other plant parts in which they complete their development and pupate.

The family Coleophoridae ranges worldwide and contains over 1,660 species. Baldizzone et al. (2006) published a world catalog of the family but more than 200 new species have since been described. The Palaearctic Region accounts for most of the known diversity. Thus far, 152 species have been reported from NA, all in the genus *Coleophora*. The group is poorly known in NA, and numerous more species await description. A number of species have been treated by Landry & Wright (1993), and Landry (1994, 1998b, 2005).

An extensive classification of Coleophoridae into subfamilies, tribes, and many genera by Căpuşe and Falkovitsh in several papers (see Baldizzone et al. 2006 for references) has been proposed, but not widely accepted. Two recent phylogenetic analyses based on DNA barcodes and the *wingless* gene (Bauer et al. 2012; Anikin et al. 2015) using different sets of species produced different results, the former further synonymizing genera, the latter advocating multiple genera and subfamilies. The scheme of Baldizzone et al. (2006) is followed here with a single genus. The species arrangement is alphabetical for practical reasons: while a number of species can be arranged into groups — some grouping was implicit in Wright (in Hodges et al. 1983) — the high proportion (about a third) of species of uncertain placement would have resulted in a subjective and unsatisfactorily hybrid arrangement.

Genus COLEOPHORA Hübner, 1822
ID INFO (partial): Landry & Wright (1993), Landry (1994), (1998b), (2005).

ABARASCHIA Căpuşe, 1973
AGAPALSA Falkovitsh, 1972
ALABASTRIA Falkovitsh, 2003
AMSELGHIA Căpuşe, 1973
AMSELIPHORA Căpuşe, 1971
APISTA Hübner, 1825
APOCOPTA Falkovitsh, 1987
APORIPTURA Falkovitsh, 1972
ARDANIA Căpuşe, 1973
ARGYRACTINIA Falkovitsh, 1972
ASCLERIDUCTIA Căpuşe, 1973
ASTYAGES Stephens, 1834
ASYCHNA Stainton, 1854
ATRACTULA Falkovitsh, 1987
AURELIANIA Căpuşe, 1971
BACESCUIA Căpuşe, 1971
BARASCHIA Căpuşe, 1973
BELINA Falkovitsh, 1987
BENANDERPIA Căpuşe, 1973
BIMA Falkovitsh, 1972
BOURGOGNEJA Căpuşe, 1971
CALARITANIA Mariani, 1943
CALCOMARGINIA Căpuşe, 1973
CALEOPHORA Căpuşe, 1973
CARPOCHENA Falkovitsh, 1972
CASAS Wallengren, 1881
CASIGNETA Wallengren, 1881
CASIGNETELLA Strand, 1928
CEPURGA Falkovitsh, 2003
CHARACIA Falkovitsh, 1972
CHNOOCERA Falkovitsh, 1972
COLEOPHORA Hübner, 1806
CORETHROPOEA Falkovitsh, 1972
CORNULIVALVULIA Căpuşe, 1973
COROTHROPOEA Căpuşe, 1973
CRICOTECHNA Falkovitsh, 1972
DAMOPHILA Curtis, 1832
DUCTISPIRA Căpuşe, 1974
DUMITRESCUMIA Căpuşe, 1973
ECEBALIA Căpuşe, 1973
EUPISTA Hübner, 1825
FALKOVITSHIA Căpuşe, 1972
FREDERICKOENIGIA Căpuşe, 1971
GLASERIA Căpuşe, 1971
GLOBULIA Căpuşe, 1973
GLOCHIS Falkovitsh, 1987
GONIODOMA Zeller, 1849
HAMULIELLA Căpuşe, 1973
HAPLOPTILIA Hübner, 1825
HELOPHAREA Falkovitsh, 1972
HELVALBIA Căpuşe, 1973
HERINGIELLA Börner, 1944
IONESCUMIA Căpuşe, 1971
IONNEMESIA Căpuşe, 1973
KASYFIA Căpuşe, 1973
KLIMESCHJA Căpuşe, 1971
KLIMESCHJOSEFIA Căpuşe, 1975
KLINZIGEDIA Căpuşe, 1971
KUZNETZOVVLIA Căpuşe, 1973
LATISACCULIA Căpuşe, 1973
LONGIBACILLIA Căpuşe, 1973
LUCIDAESIA Căpuşe, 1973
LUZULINA Falkovitsh, 1972
LVARIA Căpuşe, 1973
MACROCORYSTIS Meyrick, 1931
MEMBRANIA Căpuşe, 1973
METALLOSETIA Stephens, 1834
METAPISTA Căpuşe, 1973
METRIOTES Herrich-Schäffer, 1853
MONOTEMACHIA Falkovitsh, 1972
MULTICOLORIA Căpuşe, 1973
NEMESIA Căpuşe, 1971
NEUGENVIA Căpuşe, 1973
NOSYRISLIA Căpuşe, 1973
OEDICAULA Falkovitsh, 1972
ORGHIDANIA Căpuşe, 1971
ORTHOGRAPHIS Falkovitsh, 1972
ORTOHGRAPHIS Căpuşe, 1973
OUDEJANSIA Căpuşe, 1973
PAPYROSIPHA Falkovitsh, 1987
PARAVALVULIA Căpuşe, 1973
PATZAKIA Căpuşe, 1973
PERYGRA Falkovitsh, 1972
PERYGRIDIA Falkovitsh, 1972

PHAGOLAMIA Falkovitsh, 1972
PHYLLOSCHEMA Falkovitsh, 1972
PLEGMIDIA Falkovitsh, 1972
POLYSTROPHIA Falkovitsh, 1987
PORRECTARIA Haworth, 1828
POSTVINCULIA Căpuşe, 1973
PROGLASERIA Căpuşe, 1973
PROTOCRYPTIS Meyrick, 1931
QUADRATIA Căpuşe, 1973
RAMIDOMIA Falkovitsh, 2005
RAZOWSKIA Căpuşe, 1971
RHABDOECA Falkovitsh, 1987
RHAMNIA Căpuşe, 1973
SACCULIA Căpuşe, 1973
SCLERIDUCTIA Căpuşe, 1973
SORBICOLA Falkovitsh, 2003
STABILARIA Falkovitsh, 1988
STOLLIA Căpuşe, 1971
SUIREIA Căpuşe, 1971
SYMPHYPODA Falkovitsh, 1972
SYSTROPHOECA Falkovitsh, 1972
TOLLEOPHORA Căpuşe, 1971
TOLLSIA Căpuşe, 1973
TRITEMACHIA Falkovitsh, 1987
TUBERCULIA Căpuşe, 1973
ULNA Căpuşe, 1973
VALVULONGIA Căpuşe, 1971
VLADDELIA Căpuşe, 1971
ZAGULAJEVIA Căpuşe, 1971
ZANGHERIPHORA Căpuşe, 1971

59a1509.1 C. acamtopappi Busck, 1915 (Coleophora) 1328
59a1510.1 C. accordella Walsingham, 1882 (Coleophora) 1289
59a1511.1 C. acuminatoides McDunnough, 1958 (Coleophora) 1339
59a1512.1 C. acutipennella Walsingham, 1882 (Coleophora) 1314
59a1513.1 C. affiliatella McDunnough, 1946 (Coleophora) 1279
59a1514.1 C. alabama Landry, 1994 (Coleophora) [NEW]
59a1514.2 C. albidella ([Denis & Schiffermüller], 1775) (Tinea) H [NEW]
NOTE: Holarctic species discovered recently in NA (JFL, in litt.).
incanella Tengström, 1848 (Coleophora)
razowskii Căpuşe, 1971 (Coleophora)
trembleyella (Villers, 1789) (Phalaena)
59a1515.1 C. albovanescens Heinrich, 1926 (Coleophora) 1258
59a1516.1 C. alniella Heinrich, 1914 (Coleophora) 1296
59a1517.1 C. alnifoliae Barasch, 1934 (Coleophora) H 1298
alnivorella McDunnough, 1946 (Coleophora)
59a1518.1 C. alticolella Zeller, 1849 (Coleophora) H 1379
59a1519.1 C. annulicola Braun, 1925 (Coleophora) 1265
59a1520.1 C. apicialbella Braun, 1920 (Coleophora) 1389
apicella Braun, 1919 (Coleophora)
59a1521.1 C. argentella Chambers, 1878 (Coleophora) 1270
argentialbella Chambers, 1875 (Coleophora)
59a1522.1 C. argentialbella Chambers, 1874 (Coleophora) [NEW]
angentialbella; Wright, 1983 (Coleophora) missp. *[1357]*
59a1523.1 C. arizoniella (Kearfott, 1907) (Holcocera) [NEW]
NOTE: This species was transferred from *Scythris* to *Coleophora* by Landry (1991b).
59a1524.1 C. astericola Heinrich, 1920 (Coleophora) 1303
59a1525.1 C. asterophagella McDunnough, 1944 (Coleophora) 1266
59a1526.1 C. asterosella McDunnough, 1944 (Coleophora) 1312
59a1527.1 C. atriplicis Meyrick, 1928 (Coleophora) H [NEW]
NOTE: The Nearctic *C. cervinella* was recognized as a synonym of the Old World species *C. atriplicis* by Landry et al. (2013).
cervinella McDunnough, 1946 (Coleophora) *[1359]*
59a1528.1 C. atriplicivora Cockerell, 1898 (Coleophora) 1326
59a1529.1 C. atromarginata Braun, 1914 (Coleophora) 1257
59a1530.1 C. badiipennella (Duponchel, 1843) (Ornix) I [NEW]
NOTE: Introduced from Europe (Landry 1998b).
59a1531.1 C. basistrigella Chambers, 1877 (Coleophora) 1354
59a1532.1 C. bella Walsingham, 1882 (Coleophora) 1356
59a1533.1 C. benestrigatella McDunnough, 1941 (Coleophora) 1366
59a1533.2 C. bernoulliella (Goeze, 1783) (Phalaena) I [NEW]
NOTE: Introduced from Europe, with several old NA records but only recently identified (JFL, in litt.).
anatipennella (Hübner, 1796) (Tinea)
obscurella Krulikovsky, 1909 (Coleophora)
ringoniella Oku, 1965 (Coleophora)
tiliella (Schrank, 1801) (Tinea)
59a1534.1 C. bidens Braun, 1940 (Coleophora) 1340
59a1535.1 C. bidentella McDunnough, 1941 (Coleophora) 1368
59a1536.1 C. biforis Braun, 1921 (Coleophora) 1370
59a1537.1 C. bipunctella Walsingham, 1882 (Coleophora) [NEW]
NOTE: This species, described from TX, was inadvertently omitted from recent checklists.
59a1538.1 C. bispinatella McDunnough, 1954 (Coleophora) 1381
59a1539.1 C. bistrigella Chambers, 1875 (Coleophora) 1315
59a1540.1 C. borea Braun, 1921 (Coleophora) 1361
59a1541.1 C. brunneipennis Braun, 1921 (Coleophora) 1367
59a1542.1E C. caespititiella Zeller, 1839 (Coleophora) EXCL. 1375
NOTE: According to Handfield (2002), all historical reports of this European species in NA are incorrect.
59a1543.1 C. canadensisella McDunnough, 1955 (Coleophora) 1274
59a1544.1 C. chambersella Dyar, 1903 (Coleophora) 1351
artemisicolella Chambers, 1877 (Coleophora)
59a1545.1 C. coenosipennella Clemens, 1860 (Coleophora) 1372
59a1546.1 C. colutella (Fabricius, 1794) (Alucita) I [NEW]
NOTE: Introduced European species reported in NA by Hoebeke et al. (1993).
crocinella Tengström, 1848 (Coleophora)
serenella Duponchel, 1843 (Coleophora)
stanoiuii (Nemeş, 2004) (Membrania)
59a1547.1 C. comptoniella (McDunnough, 1926) (Haploptilia) 1300
betulivora McDunnough, 1946 (Coleophora)
comptinila; Poole, 1996 (Coleophora) missp.
59a1548.1 C. concolorella Clemens, 1863 (Coleophora) 1384
unicolorella Chambers, 1874 (Coleophora)
59a1549.1 C. contrariella McDunnough, 1955 (Coleophora) 1373
59a1550.1 C. cornella Walsingham, 1882 (Coleophora) 1297
albiantennaella Wild, 1915 (Coleophora)
59a1551.1 C. cornivorella McDunnough, 1945 (Coleophora) 1277
59a1552.1 C. corylifoliella Clemens, [1862] (Coleophora) 1292
59a1553.1 C. cratipennella Clemens, 1864 (Coleophora) 1365
gigantella Chambers, 1874 (Coleophora)
shaleriella Chambers, 1874 (Coleophora)
tamesis of authors; not Waters, 1929 (Coleophora) misappl.
NOTE: Wright (in Hodges et al. 1983) incorrectly synonymized *tamesis* with *C. cratipennella*; *C. tamesis* is a valid species that is strictly Palaearctic (Baldizzone & Landry 1993).
59a1554.1 C. cretaticostella Clemens, 1860 (Coleophora) 1283
59a1555.1 C. crinita Braun, 1921 (Coleophora) 1324
59a1556.1 C. deauratella Lienig & Zeller, 1846 (Coleophora) I [NEW]
NOTE: Introduced from Europe; it was present in NA by 1962 (Landry 1991a).
59a1557.1 C. demissella Braun, 1914 (Coleophora) 1310
59a1558.1 C. dentiferoides McDunnough, 1958 (Coleophora) 1382
59a1559.1 C. detractella McDunnough, 1961 (Coleophora) 1344
59a1560.1 C. dextrella Braun, 1940 (Coleophora) 1343
59a1561.1 C. discostriata Walsingham, 1882 (Coleophora) 1259
59a1562.1 C. dissociella McDunnough, 1955 (Coleophora) 1281
59a1563.1 C. duplicis Braun, 1921 (Coleophora) 1337
59a1564.1 C. elaeagnisella Kearfott, 1908 (Coleophora) 1260
59a1565.1 C. entoloma Busck, 1913 (Coleophora) 1322
59a1566.1 C. ericoides Braun, 1919 (Coleophora) 1332
59a1567.1 C. fagicorticella Chambers, 1874 (Coleophora) 1380
59a1568.1 C. gaylussaciella Heinrich, 1915 (Coleophora) 1276
peregrinaevorella McDunnough, 1954 (Coleophora)
59a1569.1 C. glaucella Walsingham, 1882 (Coleophora) 1305
59a1570.1 C. glaucicolella Wood, 1892 (Coleophora) H 1378
59a1571.1 C. glissandella McDunnough, 1942 (Coleophora) 1377
59a1572.1 C. glitzella Hoffmann, 1869 (Coleophora) H [NEW]
NOTE: Holarctic species discovered recently in NA by Landry et al. (2013).
59a1573.1 C. granifera Braun, 1919 (Coleophora) 1302
59a1574.1 C. granulatella Zeller, 1849 (Coleophora) H [NEW]
NOTE: Holarctic species recently discovered in NA (Landry et al. 2013).
artemisiae Mühlig, 1864 (Coleophora)
59a1575.1 C. heinrichella (McDunnough, 1933) (Haploptilia) 1318
59a1576.1 C. indefinitella Oudejans, 1971 (Coleophora) 1396
zelleriella Chambers, 1874 (Coleophora)
59a1577.1 C. infuscatella Clemens, 1860 (Coleophora) 1371
59a1578.1 C. intermediella McDunnough, 1940 (Coleophora) 1342
59a1579.1 C. irroratella Walsingham, 1882 (Coleophora) 1309
59a1580.1 C. juglandella McDunnough, 1946 (Coleophora) 1293
59a1581.1 C. kalmiella (McDunnough, 1936) (Haploptilia) 1273
59a1582.1 C. kearfottella Barnes & Busck, 1920 (Coleophora) 1290

59a1583.1 C. klimeschiella Toll, 1952 (Coleophora) I [NEW]
NOTE: A biocontrol agent introduced from Asia to NA to control Russian thistle (*Kali* spp.; Amaranthaceae) (Goeden et al. 1987). It is now common in some parts of western NA.
59a1584.1 C. ladonia Landry & Wright, 1993 (Coleophora) [NEW]
59a1585.1 C. laricella (Hübner, [1817]) (Tinea) I 1311
NOTE: Introduced from Europe, first detected in NA in MA in 1886.
argyropennella (Treitschke, 1835) (Ornix)
NOTE: Synonymy by Zeller (1849), which was inadvertently omitted by Baldizonne et al. (2006).
laricinella (Ratzeburg, 1840) (Phalaena)
nigricornis Wocke, 1877 (Coleophora)
59a1586.1 C. laticornella Clemens, 1860 (Coleophora) 1291
caryaefoliella Clemens, 1862 (Coleophora)
59a1587.1 C. latronella McDunnough, 1940 (Coleophora) 1376
59a1588.1 C. laurentella McDunnough, 1944 (Coleophora) 1263
59a1589.1 C. ledi Stainton, 1860 (Coleophora) H 1286
59a1590.1 C. lentella Heinrich, 1915 (Coleophora) 1294
59a1591.1 C. leucochrysella Clemens, 1863 (Coleophora) 1272
59a1592.1 C. limosipennella (Duponchel, 1843) (Ornix) I [NEW]
NOTE: Introduced from Europe (Baldizzone et al. 2006).
ulmifoliella McDunnough, 1946 (Coleophora) [1301]
59a1593.1 C. lineapulvella Chambers, 1874 (Coleophora) 1349
amaranthella Braun, 1919 (Coleophora)
lapidicornis Walsingham, 1907 (Coleophora)
59a1594.1 C. littorella McDunnough, 1940 (Coleophora) 1347
59a1595.1 C. luteocostella Chambers, 1875 (Coleophora) 1383
59a1596.1 C. lynosyridella Walsingham, 1882 (Coleophora) 1320
59a1597.1 C. manitoba Busck, 1915 (Coleophora) 1288
59a1598.1 C. maritella McDunnough, 1941 (Coleophora) 1385
59a1599.1 C. mayrella (Hübner, [1813]) (Tinea) I [NEW]
NOTE: Introduced from Eurasia (Landry & Wright 1993).
aeneusella Chambers, 1874 (Coleophora) [1391]
aenusella; Chambers, 1878 (Coleophora) missp.[1392]
NOTE: This name was listed as a valid species "ident. uncert." by Wright (in Hodges et al. 1983); it is a misspelling of *aeneusella* (Baldizonne et al. (2006).
auropurpuriella Chambers, 1874 (Coleophora)
coruscipennella Clemens, 1860 (Coleophora)
fabriciella (Villers, 1789) (Phalaena)
moldaviella Nemeş, 2004 (Coleophora)
spissicornis (Haworth, 1828) (Porrectaria) [1387]
trochilipennella (Costa, 1836) (Elachista)
tuscaemiliella Constantini, 1923 (Coleophora)
59a1600.1 C. mcdunnoughiella Oudejans, 1971 (Coleophora) 1321
dubiella McDunnough, 1946 (Coleophora)
59a1601.1 C. monardae McDunnough, 1945 (Coleophora) 1319
59a1602.1 C. monardella (McDunnough, 1933) (Haploptilia) 1268
59a1603.1 C. multicristatella McDunnough, 1954 (Coleophora) 1280
59a1604.1 C. multipulvella Chambers, 1878 (Coleophora) [NEW]
atlantica Heinrich, 1920 (Coleophora)
castipennella Walsingham, 1882 (Coleophora)
cinerella Chambers, 1878 (Coleophora)
malivorella Riley, 1879 (Coleophora) [1254]
NOTE: The earlier precedence of Riley's *malivorella* (e.g., by Wright, in: Hodges et al. 1983) was based on an incorrect publication date. The correct dates were established by Baldizzone et al. (2006).
59a1605.1 C. murinella Tengström, [1848] (Coleophora) H 1284
59a1606.1 C. nemorella McDunnough, 1956 (Coleophora) 1341
59a1607.1 C. nigrostriata Walsingham, 1882 (Coleophora) 1355
59a1608.1 C. ochrostriata Walsingham, 1882 (Coleophora) 1353
59a1609.1 C. ostryae Clemens, [1862] (Coleophora) 1295
carpinella Heinrich, 1914 (Coleophora)
rufoluteella Chambers, 1874 (Coleophora)
59a1610.1 C. paludoides McDunnough, 1957 (Coleophora) 1304
paludicola McDunnough, 1946 (Coleophora)
59a1611.1 C. parthenica Meyrick, 1891 (Coleophora) I [NEW]
NOTE: A biocontrol agent introduced from Eurasia to NA to control Russian thistle (*Kali* spp.; Amaranthaceae) (Goeden et al. 1978). It is now widespread in southwestern NA.
candidella Toll, 1959 (Coleophora)
candidella Toll & Amsel, 1967 (Coleophora)
cygnipennella Toll, 1957 (Coleophora)
hilmendella Amsel, 1968 (Coleophora)
lashkarella Toll & Amsel, 1967 (Coleophora)
transcaspica Toll, 1959 (Coleophora)
59a1612.1 C. persimplexella McDunnough, 1955 (Coleophora) 1287
59a1613.1 C. polemoniella Braun, 1919 (Coleophora) 1306
59a1614.1 C. prepostera Braun, 1923 (Coleophora) 1345
59a1615.1 C. pruniella Clemens, [1862] (Coleophora) 1271
innotabilis Braun, 1927 (Coleophora)
nigerlineella; Chambers, 1878 (Coleophora) missp.
nigralineella Chambers, 1876 (Coleophora)
ochrella Chambers, 1878 (Coleophora)
piperata Braun, 1925 (Coleophora)
volckei Heinrich, 1918 (Coleophora)
volckei Volck, 1917 (Coleophora)
59a1615.2 C. prunifoliae Doets, 1944 (Coleophora) I [NEW]
NOTE: Introduced from Europe, first found in BC in 2008 by Dave Holden but only recently identified (JFL, in litt.).
pseudoprunifoliae Căpuşe, 1971 (Coleophora)
59a1616.1 C. puberuloides McDunnough, 1956 (Coleophora) 1335
59a1617.1E C. pulchricornis Walsingham, 1897 (Coleophora) EXCL. 1363
NOTE: Inclusion of this Caribbean species by Hodges, in Hodges et al. (1983) was an error.
59a1618.1 C. quadrilineella Chambers, 1878 (Coleophora) 1358
59a1619.1 C. quadristrigella Busck, 1913 (Coleophora) 1329
59a1620.1 C. quadruplex McDunnough, 1940 (Coleophora) 1350
59a1621.1 C. querciella Clemens, [1862] (Coleophora) 1261
59a1622.1 C. ramitella Landry & Wright, 1993 (Coleophora) [NEW]
59a1623.1 C. rosacella Clemens, 1864 (Coleophora) 1316
59a1624.1 C. rosaefoliella Clemens, 1864 (Coleophora) 1262
ciliaeochrella Chambers, 1874 (Coleophora)
59a1625.1 C. rosaevorella McDunnough, 1946 (Coleophora) 1313
59a1626.1 C. rugosae McDunnough, 1956 (Coleophora) 1338
59a1627.1 C. rupestrella McDunnough, 1955 (Coleophora) 1285
59a1628.1 C. sacramenta Heinrich, 1914 (Coleophora) 1255
59a1629.1 C. salicivorella McDunnough, 1945 (Coleophora) 1275
59a1630.1 C. salinoidella McDunnough, 1946 (Coleophora) 1348
59a1631.1 C. seminella McDunnough, 1946 (Coleophora) 1325
59a1632.1 C. serratella (Linnaeus, 1761) (Phalaena) I 1308
NOTE: Introduced from Europe, first found in NA in ON in 1885 (Gillespie & Gillespie 1982).
aethiopiformis Strand, 1902 (Coleophora)
fuscedinella Zeller, 1849 (Coleophora)
insulicola McDunnough, 1946 (Coleophora)
metallicella Hodgkinson, 1892 (Coleophora)
parasalmani Oudejans, 1971 (Coleophora)
salmani Heinrich, 1929 (Coleophora)
59a1633.1 C. sexdentatella McDunnough, 1958 (Coleophora) 1374
59a1634.1 C. simulans McDunnough, 1961 (Coleophora) 1330
59a1635.1 C. sparsipulvella Chambers, 1875 (Coleophora) 1352
sparsiatomella McDunnough, 1941 (Coleophora) N. SYN. *[1362]*
NOTE: New synonymy based on examination of types (JFL).
59a1636.1 C. sparsipuncta Heinrich, 1929 (Coleophora) 1323
59a1637.1 C. spinella (Schrank, 1802) (Tinea) I [NEW]
NOTE: Introduced from Europe. The name *C. occidentis* Zeller, 1873 has been misapplied to the NA fauna; it is a synonym of the Palaearctic *C. coracipennella* (Hübner, 1796). It was misspelled "*occidentalis*" by Chambers.
cerasivorella Packard, 1870 (Coleophora) [1307]
fletcherella Fernald, 1892 (Coleophora)
lutifrontella Bruand, 1851 (Coleophora)
occidentalis; Chambers, 1878 (Coleophora) missp.
occidentis of authors; not Zeller, 1873 (Coleophora) misappl.
59a1637.2 C. spiralis Falkovitsh, 1977 (Coleophora) H [NEW]
NOTE: Holarctic species recently discovered in NA (JFL, in litt.).
59a1638.1 C. suaedae Busck, 1915 (Coleophora) 1327
59a1639.1 C. suaedicola Cockerell, 1898 (Coleophora) 1369
59a1640.1 C. subapicis Braun, 1940 (Coleophora) 1333
59a1641.1 C. tenuis Walsingham, 1882 (Coleophora) 1360
59a1642.1 C. texanella Chambers, 1878 (Coleophora) 1336
NOTE: Nearctic species recently introduced to Europe (Landry et al. 2013).
coxi Baldizzone & van der Wolf, 2007 (Coleophora)
NOTE: Recent synonymy by Landry et al. (2013).
portulacae Cockerell, 1898 (Coleophora) N. SYN.[1390]
NOTE: New synonymy based on examination of type series (JFL).
vagans Walsingham, 1907 (Coleophora) [1364]
NOTE: Recent synonymy by Landry et al. (2013).
59a1643.1E C. therinella Tengström, [1848] (Coleophora) EXCL. [NEW]
NOTE: This species was reported from PE by Lafontaine et al. (2001), but that is deemed erroneous for what was probably *C. benestrigatella*; *C. therinella* is a Palaearctic species not known to occur in NA.
59a1644.1 C. tiliaefoliella Clemens, [1862] (Coleophora) 1256
59a1645.1 C. timarella Landry & Wright, 1993 (Coleophora) [NEW]
59a1646.1 C. trifolii (Curtis, 1832) (Damophila) I 1388
NOTE: Introduced from Eurasia (Landry & Wright 1993).
aurata Toll, 1960 (Coleophora)
melilotella Scott, 1861 (Coleophora)
59a1647.1 C. trilineella Chambers, 1875 (Coleophora) 1346
59a1648.1 C. triplicis McDunnough, 1940 (Coleophora) 1334

59a1649.1 C. umbratica Braun, 1914 (Coleophora) 1299
59a1650.1 C. vacciniivorella McDunnough, 1955 (Coleophora) 1282
59a1651.1 C. vancouverensis McDunnough, 1944 (Coleophora) 1264
59a1652.1 C. vernoniaeella Chambers, 1878 (Coleophora) 1269
59a1653.1 C. versurella Zeller, 1849 (Coleophora) I 1331
NOTE: Introduced from the Old World to NA and South America (Baldizzone et al. 2006).
agricolella Fuchs, 1886 (Coleophora)
amanthivora Oku, 1965 (Coleophora)
atlanticella Rebel, 1896 (Coleophora)
chiarelliae Pastrana, 1963 (Coleophora)
constanti Hering, 1942 (Coleophora)
enchorda Meyrick, 1931 (Coleophora)
fayalensis Rebel, 1940 (Coleophora)
klimeschi Vlach, 1942 (Coleophora)
miserella Staudinger, 1880 (Coleophora)
nivifera Meyrick, 1930 (Coleophora)
pallorella Benander, 1939 (Coleophora)
pisella Amsel, 1953 (Coleophora)
saccharella Amsel, 1953 (Coleophora)
tardipennella Zeller, 1849 (Coleophora)
thalassella McDunnough, 1940 (Coleophora)
tholoneura Meyrick, 1936 (Coleophora)
59a1654.1 C. viburniella Clemens, [1862] (Coleophora) 1278
viburnella; Forbes, 1923 (Coleophora) missp.
59a1655.1 C. viridicuprella Walsingham, 1882 (Coleophora) 1386
59a1656.1 C. viscidiflorella Walsingham, 1882 (Coleophora) 1317
59a1657.1 C. vitisella Gregson, 1856 (Coleophora) H [NEW]
NOTE: Holarctic species recently discovered in NA (Landry et al. 2013).
glitzella of authors; not Hoffmann, 1869 (Coleophora) misid.
59a1658.1 C. wyethiae Walsingham, 1882 (Coleophora) 1267
59a1659.1 C. xyridella Landry, 2005 (Coleophora) [NEW]

57. Family BATRACHEDRIDAE Heinemann & Wocke, [1876] 1877

by Sjaak Koster & Jean-François Landry

These are very small moths, with narrow pointed wings spanning 7 to 17 mm. Batrachedrid larvae feed on a wide variety of plant material, from fern sporangia to Cyperaceae seeds. The NA species live on aspen (*Populus* spp.; Salicaceae) catkins and as inquilines in the galls of *Pontania* sawfly larvae (Hymenoptera) on willow (*Salix* spp.; Salicaceae) leaves.

Historically, the batrachedrids had been placed as a subfamily of the Coleophoridae, but they were considered to be a separate family by Hodges (1999a), a status further supported by recent molecular studies (Heikkilä et al. 2014; Sohn et al. 2016; Wang & Li 2020). The Batrachedridae comprises about 100 named species, with 23 species known from NA. The New World species were revised by Hodges (1966a).

Genus BATRACHEDRA Herrich-Schäffer, 1853
EUSTAINTONIA Spuler, 1910

59a1663 B. praeangusta (Haworth, 1828) (Gracillaria) H/I 1399
clemensella Chambers, 1877 (Batrachedra)
turdipennella (Kollar, 1832) (Ornix)

59a1664 B. striolata Zeller, 1873 (Batrachedra) 1400
pulvella (Chambers, 1876) (Asychna)

59a1665 B. curvilineella (Chambers, 1872) (Gelechia) 1401
NOTE: This species was erroneously listed twice by Hodges, in Hodges et al. (1983), in *Batrachedra* and in *Blastodacna* (the latter, MONA No. 1461, is omitted herein).

59a1666 B. folia Hodges, 1966 (Batrachedra) 1402
59a1667 B. salicipomonella Clemens, 1865 (Batrachedra) 1403
59a1668 B. illusor Hodges, 1966 (Batrachedra) 1404
59a1669 B. testor Hodges, 1966 (Batrachedra) 1405
59a1670 B. busiris Hodges, 1966 (Batrachedra) 1406
59a1671 B. calator Hodges, 1966 (Batrachedra) 1407
59a1672 B. concitata Meyrick, 1928 (Batrachedra) 1408
59a1673 B. elucus Hodges, 1966 (Batrachedra) 1409
59a1674 B. garritor Hodges, 1966 (Batrachedra) 1410
59a1675 B. scitator Hodges, 1966 (Batrachedra) 1411
59a1676 B. hageter Hodges, 1966 (Batrachedra) 1412
59a1677 B. enormis Meyrick, 1928 (Batrachedra) 1413
59a1678 B. mathesoni Busck, 1916 (Batrachedra) 1414
59a1679 B. libator Hodges, 1966 (Batrachedra) 1415
59a1680 B. decoctor Hodges, 1966 (Batrachedra) 1416
59a1681 B. pinicolella (Zeller, 1839) (Cosmopteryx) I [NEW]
NOTE: This Eurasian species was introduced recently to NA (Maier 2005a).

Genus CHEDRA Hodges, 1966

59a1682 C. inquisitor Hodges, 1966 (Chedra) 1417
59a1683 C. pensor Hodges, 1966 (Chedra) 1418

Genus DUOSPINA Hodges, 1966

59a1684 D. abolitor Hodges, 1966 (Duospina) 1419
59a1685 D. trichella (Busck, 1908) (Batrachedra) 1420
concors (Meyrick, 1917) (Batrachedra)

SCYTHRIDID ASSEMBLAGE OF FAMILIES Wang & Li, 2020

58. Family SCYTHRIDIDAE Rebel, 1901 (teardrop moths)

by Jean-François Landry

Scythridids are very small to small moths, with wingspans of 10 to 30 mm. Adults of most species are teardrop shaped, with dark, narrow wings. Larvae feed externally on buds, flowerheads, and leaves, or they mine inside leaves, but the life histories are known for relatively few species globally. Many scythridids predominantly fly in the daytime. Some dune-dwelling species of *Areniscythris* have remarkable habits of running on hot sand during the day and burying themselves in the sand at night (Powell 1976).

There are about 650 species of scythridids known around the world. In the Nearctic region, the family is poorly known, with 43 species reported from NA, but the true diversity is much higher. Landry (1991b) revised the known NA fauna. Passerin d'Entrèves & Roggero (2007) published a global catalog.

Genus AROTRURA Walsingham, 1888
ID INFO: Landry (1991b); also Metzler (2016).
COLINITA Busck, 1907

59a1689 A. balli Landry, 1991 (Arotrura) [NEW]
59a1690 A. sponsella (Busck, 1907) (Colinita) 1676
59a1691 A. hymenata Landry, 1991 (Arotrura) [NEW]
59a1692 A. eburnea Walsingham, 1888 (Arotrura) 1657
59a1693 A. powelli Landry, 1991 (Arotrura) [NEW]
59a1694 A. atascosa Landry, 1991 (Arotrura) [NEW]
59a1695 A. divaricata (Braun, 1923) (Scythris) [NEW]
59a1695.1 A. landryorum Metzler, 2016 (Arotrura) [NEW]
59a1696 A. oxyplecta (Meyrick, 1916) (Scythris) 1667
59a1697 A. formidabilis Landry, 1991 (Arotrura) [NEW]
59a1698 A. longissima Landry, 1991 (Arotrura) [NEW]

Genus RHAMPHURA Landry, 1991

59a1699 R. altisierrae (Keifer, 1937) (Scythris) 1649
59a1700 R. ochristriata (Walsingham, 1888) (Butalis) 1666
59a1701 R. perspicillella (Walsingham, 1888) (Butalis) [NEW]
perspicellella; (Hodges, 1983) (Scythris) missp. *[1669]*
59a1702 R. suffusa (Walsingham, 1888) (Butalis) 1677

Genus SCYTHRIS Hübner, 1825
BUTALIS Treitschke, 1833
COPIDA Sodoffsky, 1837
GALANTHIA Hübner, 1825

59a1703 S. basilaris (Zeller, 1855) (Butalis) 1652
flavifrontella (Clemens, 1860) (Butalis)
59a1704 S. eboracensis (Zeller, 1855) (Butalis) 1655
59a1705 S. fuscicomella (Clemens, 1860) (Butalis) 1659
59a1706 S. interrupta Braun, 1920 (Scythris) 1663
59a1707 S. pilosella (Zeller, 1873) (Butalis) 1670
59a1708 S. inspersella (Hübner, [1817]) (Tinea) H [NEW]
aterrimella (Walker, 1864) (Gelechia) *[1651]*
epilobiella McDunnough, 1942 (Scythris) *[1656]*
hypotricha Joannis, 1920 (Scythris)
59a1709 S. noricella (Zeller, 1843) (Oecophora) H [NEW]
latifoliella Wolff, 1964 (Scythris)
NOTE: Described from GR as a subspecies; treated as a synonym by Karsholt et al. (2015).
magnatella Busck, 1904 (Scythris) *[1664]*
59a1710 S. immaculatella Chambers, 1875 (Scythris) H [NEW]
kostjuki Sinev, 2001 (Scythris)
pacifica McDunnough, 1927 (Scythris) *[1668]*
59a1711 S. limbella (Fabricius, 1775) (Tinea) I [NEW]
NOTE: Introduced from Europe (Landry 1991b).
chenopodiella (Hübner, 1813) (Tinea)
quadriguttella (Thunberg, 1794) (Tinea) *[1673]*
tristella (Hübner, 1796) (Tinea)
variella ([Denis & Schiffermüller], 1775) (Tinea)
59a1712 S. mixaula Meyrick, 1916 (Scythris) 1665
59a1713 S. trivinctella (Zeller, 1873) (Butalis) 1678
59a1714 S. ypsilon Braun, 1920 (Scythris) 1679
59a1715 S. anthracina Braun, 1923 (Scythris) 1650
59a1716 S. charon Meyrick, 1918 (Scythris) 1653
59a1717 S. piratica Meyrick, 1928 (Scythris) 1671
59a1718 S. inornatella (Chambers, 1880) (Coleophora) 1397
59a1719e S. brevistrigella (Chambers, 1875) (Butalis) emend.; EXCL.; nom. dub. [NEW]
NOTE: The type of this species cannot be located and is probably lost, and the description is not sufficiently detailed to allow the name to be associated with any known biological species (Landry 1991b).
brevistriga; (Chambers, 1878) (Butalis) missp.
buristriga; (Chambers, 1875) (Butalis) orig. missp.
59a1719.1e S. dorsipallidella (Chambers, 1875) (Butalis) EXCL.; nom. dub. [NEW]
NOTE: The type of this species cannot be located and is probably lost, and the description is not sufficiently detailed to allow the name to be associated with any known biological species (Landry 1991b).
59a1720 S. sinensis (Felder & Rogenhofer, 1875) (Butalis) I [NEW]
NOTE: Eurasian species recently introduced to NA; known only from PA (Landry et al. 2013).
pentaxantha (Meyrick, 1929) (Eretmocera)

Genus LANDRYIA Kemal & Koçak, 2006
ASYMMETRURA Landry, 1991

59a1721 L. albilineata (Walsingham, 1888) (Butalis) 1648
59a1722 L. graminivorella (Braun, 1920) (Scythris) 1660
59a1723 L. impositella (Zeller, 1855) (Butalis) 1662
monstratella (Walker, 1864) (Butalis)
59a1724 L. matutella (Clemens, 1860) (Butalis) [NEW]
ambroseaiella (Chambers, 1873) (Sinoe)
59a1725 L. reducta (Braun, 1923) (Scythris) 1674
59a1726 L. scintillifera (Braun, 1927) (Scythris) 1675

Genus NEOSCYTHRIS Landry, 1991

59a1727 N. confinis (Braun, 1920) (Scythris) 1654
59a1728E N. euthia (Walsingham, 1914) (Apostibes) EXCL. [NEW]
NOTE: This Mexican species was accidentally listed for NA by Pohl et al. (2016).
59a1729 N. fissirostris (Meyrick, 1928) (Scythris) 1658
59a1730 N. planipenella (Chambers, 1875) (Butalis) emend. [NEW]
albacostella (Chambers, 1875) (Coleophora) *[1646]*
NOTE: Listed twice by Hodges, in Hodges et al. (1983), in *Scythris* (MONA No. 1646) and in *Coleophora* (MONA No. 1393, as "misplaced"). The latter is omitted from the present list.
fuscostrigella (Chambers, 1878) (Coleophora) *[1395]*
hemidictyas (Meyrick, 1928) (Scythris) *[1661]*
planipennella; (Chambers, 1878) (Butalis) missp.
plausipenella; (Chambers, 1875) (Butalis) orig. missp.
plausipennella; (Chambers, 1878) (Scythris) missp. *[1672]*

Genus ARENISCYTHRIS Powell, 1976
ID INFO: Landry (1991b); also Metzler & Lightfoot (2014).

59a1731 A. brachypteris Powell, 1976 (Areniscythris) 1680
59a1732 A. whitesands Metzler & Lightfoot, 2014 (Areniscythris) [NEW]

59. Family STATHMOPODIDAE Meyrick, 1913

by Sjaak Koster & Jean François Landry

Stathmopodids are very small to small moths (wingspans from 7 to 30 mm), with smooth-scaled heads, very narrow pointed wings, and long bristled hindlegs which are held upright in resting position. When at rest, the characteristic posture of the primarily diurnal moths is suggestive of small jumping spiders or some other small arthropods. Some larvae feed on fruits, seeds or reproductive organs of plants; others are scavengers, or are predators in colonies of scale insects or on spider eggs (Common 1970). They can be pests on cultivated plants (Koster & Sinev 2003).

Until recently, stathmopodids were included as a subfamily within the Oecophoridae (Hodges 1999a), but Sinev (2002a) showed that there are good reasons for maintaining family status. This was later confirmed by Heikkilä et al. (2014). More than 390 species of stathmopodids are known worldwide (Terada 2016); three of these occur in the Nearctic region, and a fourth occurred here briefly but has been extirpated. The group has not been the subject of modern taxonomic revision. Sinev (2015) published a world catalog for the family.

Genus STATHMOPODA Herrich-Schäffer, 1853

AGRIOSCELIS Meyrick, 1913
BOOCARA Butler, 1880
ERINEDA Busck, 1909
KAKIVORIA Nagano, 1916
PLACOSTOLA Meyrick, 1887

59a1732.5 S. aenea (Braun, 1918) (Erineda) [NEW]
NOTE: This species, described from OH, was inadvertently omitted by Hodges, in Hodges et al. (1983).

59a1732.6 S. elyella (Busck, 1909) (Erineda) 1070

59a1732.7 S. pedella (Linnaeus, 1761) (Phalaena) I 1071
NOTE: Introduced from Eurasia (Koster & Sinev 2003).
alucitella ([Denis & Schiffermüller], 1775) (Tinea)
angustipennella (Hübner, 1796) (Tinea)
cylindrella (Fabricius, 1777) (Tinea)
cylindricus (Fabricius, 1798) (Ypsolophus)
fastuosella (Costa, 1836) (Oecophora)

Genus TORTILIA Chrétien, 1908

59a1732.8X T. charadritis (Meyrick, 1924) (Isorrhoa) EXTIRPATED I [NEW]
viatrix Busck, 1934 (Tortilia)
NOTE: This exotic species was first reported in NA by Busck (1934), who described *T. viatrix*, a synonym, from leaves of *Cassia* spp. (Fabaceae) originating from Africa. An infestation persisted for several generations in a warehouse in NJ, but there is no evidence that any populations currently exist in NA.

60. Family BLASTOBASIDAE Meyrick, 1894

by David Adamski

Blastobasid species vary greatly in size with wingspans from about 6 mm in *Mastema* to nearly 50 mm in the largest *Holcocera*. Many species look very similar externally and require dissection and/or molecular approaches to obtain accurate identifications. Despite the rarity of host records of Blastobasidae, recent host associations and life history studies provide supportive evidence that the family consists of mostly phytophagous feeders and not opportunistic scavengers as reported in the literature.

Dietz (1900, 1910) was first to treat exclusively the fauna of NA Blastobasidae. Adamski & Hodges (1996) provided an annotated checklist of the NA Blastobasidae (treated therein as a subfamily of Coleophoridae). Heikkilä et al. (2014) and Sohn et al. (2016) provide evidence for the group to be elevated to family status. Sinev (2014) provided an intuitive classification of the world Blastobasidae, which, together with Adamski & Brown (1989), serves as a basis for current study. The Blastobasidae consist of nearly 500 species worldwide; the epicenter of greatest species diversity appears to be in the New World tropics. At present, 73 species are known from NA.

Subfamily HOLCOCERINAE Adamski & Brown, 1989

ID INFO: Dietz (1910).

Genus ASAPHOCRITA Meyrick, 1931

HOLCOCERINA McDunnough, 1961

59a1733 A. aphidiella (Walsingham, 1907) (Holcocera) 1171
basipallidella (Dietz, 1910) (Holocera)
confluentella (Dietz, 1910) (Holcocera) *[1220]*
dives (Dietz, 1910) (Holcocera) *[1180]*
simplicis (McDunnough, 1961) (Holcocerina) *[1222]*
59a1734 A. busckiella (Dietz, 1910) (Holcocera) 1174
59a1735 A. estriatella (Dietz, 1910) (Holcocera) 1182
simuloides (McDunnough, 1961) (Holcocerina) *[1223]*
59a1736 A. fuscopurpurella (Dietz, 1910) (Blastobasis) [NEW]
59a1737 A. irenica (Walsingham, 1907) (Catacrypsis) 1193
59a1738 A. plagiatella (Dietz, 1910) (Holcocera) 1207
59a1739 A. plummerella (Dietz, 1910) (Blastobasis) 1151
59a1740 A. protypica Meyrick, 1931 (Asaphocrita) 1170
59a1741 A. sciaphilella (Zeller, 1873) (Blastobasis) 1212
stygna (Walsingham, 1907) (Catacrypsis) *[1215]*
triangularisella (Chambers, 1875) (Holcocera)

Genus HOLCOCERA Clemens, 1863

ID INFO (partial): Adamski & Maier (2003), Adamski (2004).

CYNOTES Walsingham, 1907
EUBOLEPIA Dietz, 1910
HOLOCERA Dietz, 1910

59a1742 H. anomalella (Dietz, 1910) (Eubolepia) 1224
59a1743 H. chalcofrontella Clemens, 1863 (Holcocera) 1175
fumerella Dietz, 1910 (Holcocera)
gibbociliella; Forbes, 1923 (Holcocera) missp. *[1186]*
gilbociliella Clemens, 1863 (Holcocera)
livorella (Zeller, 1873) (Blastobasis) *[1195]*
maligemmella (Murtfeldt, 1898) (Nothris) *[1196]*
minorella Dietz, 1910 (Holcocera)
ochrocephala Dietz, 1910 (Holcocera) *[1204]*
purpurocomella Clemens, 1863 (Holcocera) *[1209]*
quisquiliella (Zeller, 1873) (Blastobasis)
reductella Dietz, 1910 (Holcocera)
NOTE: Adamski & Hodges (1996) synonomized *Holcocera funebra* var. *reductella* with *Holcocera chalcofrontella*.
59a1744 H. coccivorella (Chambers, 1880) (Blastobasis) 1158
59a1746 H. crassicornella Dietz, 1910 (Holcocera) 1178
eriobotryae (Busck, 1915) (Blastobasis) *[1147]*
59a1747 H. fergusoni Adamski, 2004 (Holcocera) [NEW]
59a1748 H. gargantuella (Heinrich, 1920) (Eubolepia) 1225
59a1749 H. gigantella Chambers, 1876 (Holcocera) 1185
59a1750 H. guilandinae (Busck, 1900) (Blastobasis) 1148
59a1751 H. iceryaeella (Riley, 1887) (Blastobasis) 1187
phenococci Braun, 1927 (Holcocera)
59a1752 H. immaculella McDunnough, 1929 (Holcocera) 1221
concolor Adamski & Maier, 2003 (Holcocera) N. SYN.
NOTE: New synonymy; the holotypes of *concolor* and *immaculella* are conspecific (contributed by JFL).
59a1753 H. panurgella Heinrich, 1920 (Holcocera) 1205
59a1754 H. paradoxa Powell, 1976 (Holcocera) 1206
59a1755 H. villella (Busck, [1901] 1900) (Triclonella) [NEW]
augusti Heinrich, 1920 (Holcocera) *[1172]*
vilella; Dietz, 1910 (Holcocera) missp.

Genus CALOSIMA Dietz, 1910

ID INFO (partial): Adamski & Brown (1989), Adamski (2003).

59a1756 C. albapenella (Chambers, 1875) (Butalis) 1647
citricolella (Chambers, 1880) (Blastobasis) *[1157]*
nana (Dietz, 1910) (Holcocera) *[1201]*
59a1757 C. argyrosplendella Dietz, 1910 (Calosima) 1168
59a1758 C. dianella Dietz, 1910 (Calosima) 1169
lepidophaga (Clarke, 1960) (Holcocera) *[1194]*
59a1759 C. elyella (Dietz, 1910) (Holcocera) 1181
59a1760 C. lucidella Adamski, 1989 (Calosima) [NEW]
59a1761 C. melanostriatella (Dietz, 1910) (Holcocera) 1197
melonostriatella; (Dietz, 1910) (Holcocera) missp.
59a1762 C. munroei Adamski, 2003 (Calosima) [NEW]

Subfamily BLASTOBASINAE Meyrick, 1894

Genus BLASTOBASIS Zeller, 1855

ID INFO: Dietz (1910); also Adamski (2000b [2003]).

BLASTORASIS Dietz, 1910
EPISTETUS Walsingham, 1894
EURESIA Dietz, 1910
PROSTHESIS Walsingham, 1908
VALENTINIA Walsingham, 1907
ZENODOCHIUM Walsingham, 1907

59a1763 B. confamulella (Heinrich, 1921) (Holcocera) 1177
59a1764 B. confectella (Zeller, 1873) (Hypatima) 1159
59a1765 B. floridella (Dietz, 1910) (Valentinia) 1160
59a1766 B. glandulella (Riley, 1871) (Gelechia) 1162
NOTE: Native NA species, introduced to Europe and a senior synonym of *B. huemeri* (Landry et al. 2013).
huemeri Sinev, 1993 (Blastobasis)
modestella (Clemens, 1863) (Holcocera) unavail.[1199]
NOTE: *H. modestella* is a suppressed senior synonym by Adamski (2000b [2003]).
nubilella Zeller, 1873 (Blastobasis)
59a1767 B. maroccanella Amsel, 1952 (Blastobasis) I [NEW]
NOTE: Introduced from Europe to NA, first found in CA in 2000 (Landry et al. 2013).
59a1768 B. nothrotes (Walsingham, 1907) (Valentinia) 1163
59a1769E B. ochrobathra Meyrick, 1921 (Blastobasis) EXCL.[NEW]
NOTE: Reported from FL by Heppner (2007), but that was erroneous.
59a1770 B. pulchella (Dietz, 1910) (Euresia) 1167
maritimella McDunnough, 1961 (Blastobasis) *[1150]*
pulebella; (Dietz, 1910) (Euresia) missp.
59a1771 B. quaintancella (Dietz, 1910) (Valentinia) 1164
59a1772 B. repartella (Dietz, 1910) (Valentinia) 1165

59a1773 B. retectella Zeller, 1873 (Blastobasis) 1166
fractilinea Zeller, 1873 (Blastobasis) *[1161]*
59a1774 B. tarda Meyrick, 1902 (Blastobasis) I [NEW]
NOTE: Introduced Australian species first found in NA in CA in 2009 (Landry et al. 2013).
ligurica (Nel & Varenne, 2004) (Neoblastobasis)
59a1775 B. taurusella Adamski, [2003] 2000 (Blastobasis) [NEW]
59a1776E B. segnella Zeller, 1873 (Blastobasis) EXCL. 1153
NOTE: This species was listed by Hodges (in Hodges et al. 1983), but it does not occur in NA (Adamski & Hodges 1996).
59a1777 B. yuccaecolella Dietz, 1910 (Blastobasis) 1154

Genus HYPATOPA Walsingham, 1907
ID INFO: Dietz (1910).
BLASTOBASOIDES McDunnough, 1961
CATACRYPRIS Dietz, 1910
CATACRYPSIS Walsingham, 1907
PRORODICA Dietz, 1910
PROSODICA Walsingham, 1907

59a1778 H. annulipes (Dietz, 1910) (Holcocera) [NEW]
59a1779 H. boreasella (Dietz, 1910) (Holcocera) 1173
59a1780 H. crescentella (Dietz, 1910) (Holcocera) 1179
59a1781 H. fluxella (Zeller, 1873) (Blastobasis) 1183
annectella (Dietz, 1910) (Holcocera)
pusilla (Dietz, 1910) (Holcocera) *[1210]*
zelleriella (Dietz, 1910) (Holcocera) *[1219]*
59a1782 H. funebra (Dietz, 1910) (Holcocera) 1184
NOTE: Adamski & Hodges (1996) transferred this species to *Hypatopa*.
59a1783 H. hulstella (Dietz, 1910) (Blastobasis) 1149
59a1784 H. illibella (Dietz, 1910) (Holcocera) 1188
59a1785 H. inconspicua (Walsingham, 1907) (Catacrypsis) 1190
59a1786 H. insulatella (Dietz, 1910) (Holcocera) 1191
rufopunctella (Dietz, 1910) (Holcocera) *[1211]*
59a1787 H. interpunctella (Dietz, 1910) (Holcocera) 1192
59a1788 H. messelinella (Dietz, 1910) (Holcocera) 1198
59a1789 H. morrisoni (Walsingham, 1907) (Catacrypsis) 1200
59a1790 H. nigrostriata (Walsingham, 1907) (Holcocera) 1202
nigristriata; (Dietz, 1910) (Holcocera) missp.
59a1791 H. nucella (Walsingham, 1907) (Catacrypsis) 1203
59a1792 H. punctiferella (Clemens, 1863) (Gelechia) 1208
clemensella (Chambers, 1874) (Holcocera) *[1176]*
subsenella (Zeller, 1873) (Hypatima)
tartarella (Dietz, 1910) (Holcocera) *[1216]*
59a1793 H. sagitella (Dietz, 1910) (Blastobasis) 1152
inclusa (Dietz, 1910) (Holcocera) *[1189]*
59a1794 H. simplicella (Dietz, 1910) (Blastobasis) [NEW]
coenomorpha (Meyrick, 1931) (Blastobasis) *[1145]*
differtella (McDunnough, 1961) (Blastobasoides) *[1155]*
distinctella (Dietz, 1910) (Blastobasis) *[1146]*
59a1795 H. spoliatella (Dietz, 1910) (Holocera) 1237
59a1796 H. spretella (Dietz, 1910) (Holcocera) 1214
59a1797 H. texanella Walsingham, 1907 (Hypatopa) [NEW]
simulella (Dietz, 1910) (Holcocera) *[1213]*
59a1798 H. titanella McDunnough, 1961 (Hypatopa) 1156
NOTE: This species shares the same DNA barcode as the European *H. binotella* (Thunberg, 1794) and is likely conspecific (contributed by JFL).
59a1799 H. ursella (Walsingham, 1907) (Catacrypsis) 1217
59a1800 H. vestaliella (Dietz, 1910) (Holcocera) 1218

Genus LATEANTENNA Amsel, 1968

59a1800.5 L. inana (Butler, 1881) (Gracilaria) REV. STAT. [NEW]
NOTE: This species was found recently in Homestead, FL by ME and JEH (unpubl. data). It was treated as a synonym of *Blastobasis explorata* Meyrick, 1918 by Sinev (2014), but is hereby reinstated as a valid species (rev. stat.).

Genus PIGRITIA Clemens, 1860
ID INFO: Dietz (1900).
DRYOPE Chambers, 1874
DRYOPERIA Coolidge, 1909
EPIGRITIA Dietz, 1900
EXEGETIA Braun, 1918
NOTE: Synonymy by Adamski & Sohn (2016); it was previously considered a valid genus in Lyonetiidae.
PLOEOPHORA Dietz, 1900
PLOIOPHORA Dietz, 1900
PSEUDOPIGRITIA Dietz, 1900

59a1801 P. arizonella Dietz, 1900 (Pigritia) 1229
59a1801.1 P. crocea (Braun, 1918) (Exegetia) 483
NOTE: Placed in *Pigritia* by Adamski & Sohn (2016).
59a1802 P. fidella (Dietz, 1900) (Ploiophora) 1227
59a1803 P. laticapitella Clemens, 1860 (Pigritia) 1232
ampla (Dietz, 1900) (Ploiophora) *[1226]*
anfugella; Dietz, 1900 (Pigritia) missp.
angustipennella Dietz, 1900 (Pigritia) *[1228]*
argyreela; Adamski & Brown, 1989 (Pigritia) missp.
argyreella (Dietz, 1900) (Pseudopigritia) *[1250]*
aufugella (Zeller, 1873) (Blastobasis)
basilarella Dietz, 1900 (Pigritia) *[1230]*
basilorella; Dietz, 1900 (Pigritia) missp.
confusella Dietz, 1900 (Pigritia) *[1231]*
dorsomaculella (Dietz, 1900) (Pseudopigritia) *[1251]*
equitella (Dietz, 1900) (Pseudopigritia) *[1252]*
erratella (Dietz, 1910) (Dryope)
fraternella (Dietz, 1900) (Pseudopigritia) *[1253]*
mediofasciella Dietz, 1900 (Pigritia) *[1233]*
obscurella Dietz, 1900 (Pigritia) *[1234]*
occidentella (Dietz, 1900) (Dryope) *[1247]*
ochreela; Adamski & Brown, 1989 (Pigritia) missp.
ochreella Clemens, 1863 (Pigritia) *[1248]*
ornatella Dietz, 1900 (Pigritia) *[1235]*
purpurella Dietz, 1900 (Pigritia) *[1236]*
tristella Dietz, 1900 (Pigritia) *[1238]*
59a1804 P. murtfeldtella (Chambers, 1874) (Dryope) 1246
canariella (Dietz, 1900) (Dryope) *[1240]*
discopunctella (Dietz, 1900) (Dryope) *[1241]*
fenyesella (Dietz, 1900) (Dryope) *[1242]*
fuscosuffusella (Dietz, 1900) (Dryope) *[1243]*
grisella (Dietz, 1900) (Dryope) *[1244]*
luteopulvella (Chambers, 1875) (Dryope)
minnicella (Dietz, 1900) (Dryope) *[1245]*
minnieella; (Dietz, 1900) (Dryope) missp.
pallidotinctella (Dietz, 1900) (Epigritia)
spoliatella Dietz, 1900 (Pigritia)
tenebrella (Dietz, 1900) (Dryope) *[1249]*
59a1805 P. ochrocomella Clemens, 1863 (Pigritia) 1239
heidemannella (Dietz, 1900) (Epigritia)
ochroeomella Dietz, 1900 (Pigritia)

Genus MASTEMA Adamski, 1989
ID INFO: Adamski & Brown (1989).

59a1806 M. occidentalis Adamski, 1989 (Mastema) [NEW]

61. Family MOMPHIDAE Herrich-Schäffer, 1857

by Sjaak Koster & Jean-François Landry

Momphids are very small moths (wingspans of 6 to 18 mm), with narrow pointed wings. Many species have black wings with transverse white marks and often have tufts of raised scales on the forewings. The larvae eat buds, seeds, and flowers, or are stem borers, gall makers, or leaf miners. Many species feed on the plant family Onagraceae.

The Momphidae were placed as a subfamily within the Coleophoridae by Hodges (1999a), but were elevated to family status by Kaila (2004), Kaila et al. (2011), and Heikkilä et al. (2013). Worldwide there are 114 described species, mostly in the genus *Mompha*. Forty-seven species are known from the Nearctic region. The Neotropical region is by far the richest in the number of species, but many of them are waiting for description. The group is in need of taxonomic work.

Genus MOMPHA Hübner, [1825]

ID INFO (partial): Clarke (1990), Hodges (1992), Sinev (1996), Koster & Harrison (1997), Koster & Sinev (2003), Wagner et al. (2004), Eiseman (2016).
NOTE: *Mompha* subgenera are based on the Palaearctic species; the Nearctic fauna is too poorly known to be placed accurately within that framework, so *Mompha* subgenera are treated as synonyms herein.

ANYBIA Stainton, 1854
CYPHOPHORA Herrich-Schäffer, 1853
LAVERNA Curtis, 1839
LEUCOPHRYNE Chambers, 1875
LOPHOPTILUS Sircom, 1848
PSACAPHORA Herrich-Schäffer, 1853
WILSONIA Clemens, 1864

59a1812 M. achlyognoma Koster & Harrison, 1997 (Mompha) [NEW]

59a1813 M. albapalpella (Chambers, 1875) (Laverna) 1423
albopalpella; (Chambers, 1878) (Laverna) missp.

59a1813.1 M. albocapitella (Chambers, 1875) (Laverna) REV. STAT. [NEW]
NOTE: The name *murtfeldtella* has been treated as the valid name for many years, but *albocapitella* is the oldest available name (published earlier in 1875), so it is reinstated here, and *murtfeldtella* is relegated to synonymy. The error appears to have originated with Chambers (1879) (information provided by Terry Harrison).
grissella (Chambers, 1875) (Laverna)
murtfeldtella (Chambers, 1875) (Laverna) N. SYN. [1448]
obscurusella (Chambers, 1875) (Laverna)
parvicristatella (Chambers, 1875) (Laverna)

59a1814 M. annulata (Braun, 1923) (Psacaphora) 1425

59a1815 M. argentimaculella (Murtfeldt, 1900) (Laverna) 1426

59a1816 M. bicristatella (Chambers, 1880) (Elachista) 1427

59a1817 M. bifasciella (Chambers, 1876) (Laverna) 1428

59a1818 M. bottimeri Busck, 1940 (Mompha) 1429

59a1819 M. brevivittella (Clemens, 1864) (Wilsonia) 1430
oenotheraesemenella (Chambers, 1876) (Laverna)
oenotheraevorella (Chambers, 1881) (Laverna)

59a1820 M. canicinctella (Clemens, 1863) (Chauliodes) 1431

59a1821 M. capella Busck, 1940 (Mompha) 1432

59a1822 M. cephalanthiella (Chambers, 1875) (Laverna) emend. [NEW]
cephalonthiella; (Chambers, 1871) (Laverna) orig. missp. [1433]

59a1823 M. circumscriptella (Zeller, 1873) (Laverna) 1434

59a1824 M. claudiella Kearfott, 1907 (Mompha) 1435

59a1825 M. cleidarotrypa Koster & Harrison, 1997 (Mompha) [NEW]

59a1826 M. coloradella (Chambers, 1877) (Laverna) 1436

59a1827 M. communis (Braun, 1925) (Psacaphora) 1437

59a1828 M. conturbatella (Hübner, [1819]) (Tinea) H/I 1438
elegantella (Zetterstedt, 1839) (Lita)

59a1829 M. deceptella (Braun, 1921) (Psacaphora) 1439

59a1830 M. definitella (Zeller, 1873) (Laverna) 1440
unicristatella (Chambers, 1875) (Laverna)

59a1831 M. difficilis (Braun, 1923) (Psacaphora) 1441

59a1832 M. edithella (Barnes & Busck, 1920) (Psacaphora) 1442

59a1833 M. eloisella (Clemens, 1860) (Laverna) 1443
lyonetiella (Chambers, 1875) (Laverna)
magnatella (Zeller, 1873) (Phyllocnistis) [850]
NOTE: This name was erroneously listed twice by Hodges (in Hodges et al. 1983), and Pohl et al. (2016), as a synonym of *Mompha eloisella* and as a valid species in *Phyllocnistis* (MONA No. 851; P-No. 330403). The latter is incorrect.
oenotheraeella (Chambers, 1875) (Laverna)

59a1834 M. epilobiella ([Denis & Schiffermüller], 1775) (Tinea) I [NEW]
NOTE: Recent introduction to NA from Europe (Sinev 1996). NA records date at least as early as 1973.
fulvescens (Haworth, 1828) (Recurvaria)
nebulella (Stephens, 1834) (Cleodora)

59a1835 M. franclemonti Hodges, 1992 (Mompha) [NEW]

59a1836 M. idaei (Zeller, 1839) (Elachista) H [NEW]
grandisella (Chambers, 1875) (Laverna)
polaris (Sinev, 1986) (Cyphophora)
subiridescens (Walsingham, 1882) (Laverna)
tricristatella (Chambers, 1875) (Leucophryne) [1457]

59a1837 M. ignobilisella (Chambers, 1875) (Laverna) emend. 1444
ignotilisella; (Chambers, 1875) (Laverna) orig. missp.
NOTE: Chambers (1875a) made the spelling correction in a later section of the same publication, which was split over several issues of the journal (contributed by SRN).

59a1837.1 M. locupletella ([Denis & Schiffermüller], 1775) (Tinea) H/I [NEW]
NOTE: Reported from NA by Eiseman (2016); DNA data indicate it may be an overlooked Holarctic species.
pinipennella (Zetterstedt, 1839) (Adela)
quadrilobella (Herrich-Schäffer, [1854]) (Psacaphora)
schrankella (Hübner, [1805]) (Tinea)

59a1838 M. luciferella (Clemens, 1860) (Laverna) 1445

59a1839 M. metallifera (Walsingham, 1882) (Elachista) 1446

59a1840 M. minimella (Chambers, 1880) (Laverna) 1447

59a1842 M. nancyae Clarke, 1990 (Mompha) [NEW]

59a1843 M. nuptialis Meyrick, 1922 (Mompha) 1449

59a1844 M. passerella (Busck, 1909) (Psacaphora) 1450

59a1845 M. pecosella Busck, 1907 (Mompha) 1451

59a1846 M. powelli Hodges, 1992 (Mompha) [NEW]

59a1847 M. purpuriella (Busck, 1909) (Psacaphora) 1452

59a1848 M. raschkiella (Zeller, 1839) (Elachista) H [NEW]
NOTE: Introduced species reported from western Canada by Pohl et al. (2010, 2015), but also present in eastern Canada (JFL, in litt.).

59a1849 M. rufocristatella (Chambers, 1875) (Laverna) 1453

59a1850 M. sexstrigella (Braun, 1921) (Psacaphora) H 1454
complexa Svensson, 1982 (Mompha)

59a1851 M. solomoni Wagner, Adamski & Brown, 2004 (Mompha) [NEW]

59a1852 M. stellella Busck, 1906 (Mompha) 1455

59a1853 M. sturnipennella (Treitschke, 1833) (Ornix) H [NEW]
modestella (Eversmann, 1844) (Oecophora)
nodicolella Fuchs, 1902 (Mompha)
permutatella Herrich-Schäffer, [1854] (Mompha)

59a1854 M. subbistrigella (Haworth, 1828) (Tinea) I [NEW]
NOTE: Introduced Eurasian species, first reported in NA by Pohl & Landry (in Pohl et al. 2018).

59a1855 M. terminella (Humphreys & Westwood, 1845) (Glyphipteryx) H/I 1456
chrysargyrella (Herrich-Schäffer, [1854]) (Psacaphora)
engelella Busck, 1906 (Mompha)
patriciella (Stainton, 1849) (Elachista)

59a1856 M. unifasciella (Chambers, 1876) (Laverna) 1458
decorella of authors; (not Haworth, 1812) (Tinea) misappl.
NOTE: This Palaearctic name was used by Forbes (1923) and others.

Genus SYNALLAGMA Busck, 1907

59a1857 S. busckiella Engel, 1907 (Synallagma) 1459

62. GELECHIOIDEA – UNPLACED TO FAMILY

by Gregory R. Pohl

Three very small NA moth species are currently classified as Gelechioidea but cannot be placed to family at this time. These include one species removed from Nepticulidae by van Nieukerken et al. (2016) and two species removed from *Elachista* by Kaila (1997, 2019).

[GELECHIOIDEA – NO GENUS]

59a1858.5 []. belfragrella (Chambers, 1875) (Nepticula) 108
NOTE: Removed from Nepticulidae following van Nieukerken et al. (2016); this is probably an unidentified gelechiid species.
belfrageella; (Chambers, 1878) (Nepticula) emend.
belfragella; ([various, no date]) (Nepticula) missp.

59a1859.5 []. parvipulvella (Chambers, 1875) (Elachista) 1096
NOTE: Moved from an unplaced position at the end of *Elachista*, to unplaced Gelechioidea following Kaila (1997).

59a1859.6 []. texanica (Frey & Boll, 1876) (Elachista) ident. uncert. 1112
NOTE: This species was described from TX, USA. It was treated as “incertae sedis”; excluded from Elachistidae by Kaila (2019).

Superfamily ALUCITOIDEA [Leach, 1815]

63. Family ALUCITIDAE [Leach, 1815] (many-plumed moths)

by Jean-François Landry

Many-plumed moths are very small to small moths (wingspans from 10 to 22 mm) that have characteristic deeply divided wing membranes: the forewing has six narrow featherlike plumes, and the hindwings are six- or seven-plumed. A few tropical species have wings that are only partly or hardly divided. Larvae of Alucitidae are concealed feeders that bore in flowers, buds, shoots, and fruits, or make galls.

About 220 species of Alucitidae are known worldwide, but only five species, all in the genus *Alucita*, are known in the Nearctic region. For a long time, all Nearctic *Alucita* were considered to be *A. hexadactyla*, but Landry & Landry (2004) revised the Nearctic species and recognized three valid species, none of which is the Palaearctic *A. hexadactyla*. Two other *Alucita* species were added to the NA fauna by Heppner (2023b, c). Gielis (2003) published a world catalog of Alucitoidea.

Genus ALUCITA Linnaeus, 1758

NOTE: Prior to Landry & Landry (2004), all NA *Alucita* records were attributed to *A. hexadactyla*, an Old World species that does not occur in NA. That name has been placed here as a misapplied name under *A. montana*, the most widespread NA species, but historical records of *A. hexadactyla* may refer to any of the three NA species. The name *A. huebneri* (another valid Old World species) has also been used historically in NA, where it does not occur.

ALUCITINA Heydenreich, 1851
EUCHIRADIA Hübner, 1825
ORNEODES Latreille, 1796

61a0001 A. montana Barnes & Lindsey, 1921 (Alucita) [NEW]
hexadactyla of authors; (not Linnaeus, 1758) (Phalaena) misappl. *[2313]*
huebneri of authors; not Wallengren, 1859 (Alucita) misappl.

61a0002 A. adriendenisi Landry & Landry, 2004 (Alucita) [NEW]

61a0003 A. lalannei Landry & Landry, 2004 (Alucita) [NEW]

61a0004 A. flavicincta Walsingham, 1915 (Alucita) [NEW]
NOTE: This Neotropical species was reported from FL by Heppner (2023b). The oldest known NA specimen is from 1959.

61a0005 A. eudactyla Felder & Rogenhofer, 1875 (Alucita) [NEW]
NOTE: This Neotropical species was reported from LA and TX by Heppner (2023c). The oldest known NA specimen is from TX, collected in 1980.

Superfamily PTEROPHOROIDEA Latreille, [1802]

64. Family PTEROPHORIDAE Latreille, [1802] (plume moths; T-moths)

by Deborah L. Matthews

Plume moths are very small to medium-sized slender bodied moths, with wingspans ranging from 7 to 44 mm. With one exception, *Agdistis americana*, all the NA species have the forewings divided into two fringed lobes and the hindwings divided into three. At rest, these moths appear T-shaped with the wings held perpendicular to the body and with the hindwing folded beneath or rolled within the forewing. The primary synapomorphy uniting the family is the presence of rows of stout, sclerotized "venous scales" along veins Cu2 and M3 on the hindwing venter (Gielis 1993). Worldwide, at least 70 different host plant families have been recorded (Matthews & Lott 2005), with 39% of recorded larval host plants in the family Asteraceae and 23% in the order Lamiales. A wide range of larval habits are known, including leaf skeletonizers, leaf miners and folders, stem and flower borers, and stem-gall-inducers (Matthews & Maharajh 2009). Life histories and host plants are known for 50% of the NA species. Several species are plant pests in NA, most notably the artichoke plume moth, *Platyptilia carduidactylus*.

The family Pterophoridae occurs in all faunal regions, with more than 1,413 species worldwide. There are 168 species in NA and 10 or more to be described. Higher classification is based on Gielis (1993). Synonymies in the current list follow the worldwide catalog by Gielis (2003) except as noted. Illustrations of NA genitalia for identifications can be found in Barnes & Lindsey (1921) and subsequent original descriptions. Publications, including illustrations of several species described since 2008, are listed and made available online by Matthews (2022).

Subfamily AGDISTINAE Walsingham, 1891

Genus AGDISTIS Hübner, [1825]
ERNESTIA Tutt, 1907
HERBERTIA Tutt, 1907

63a0001 A. americana Barnes & Lindsey, 1921 (Agdistis) 6089

Subfamily DEUTEROCOPINAE Klunder van Gijen, 1912

Genus LEPTODEUTEROCOPUS Fletcher, 1910
ID INFO: Matthews & Gielis (2004).

63a0002 L. neales (Walsingham, 1915) (Oxyptilus) [NEW]

Subfamily PTEROPHORINAE Latreille, [1802]

Tribe PLATYPTILIINI Tutt, 1905

Genus PLATYPTILIA Hübner, [1825]
FREDERICINA Tutt, 1905
PLATYPTILUS; Zeller, 1841 emend.

63a0003 P. tesseradactyla (Linnaeus, 1761) (Phalaena) H/I 6106
fischeri (Zeller, 1841) (Pterophorus)
hibernica Tutt, 1906 (Platyptilia)
63a0004 P. johnstoni Lange, 1940 (Platyptilia) H 6108
tshukotka Ustjuzhanin, 1996 (Platyptilia)
63a0005 P. carduidactylus (Riley, 1869) (Pterophorus) 6109
cardui Zeller, 1873 (Platyptilia)
hesperis Grinnell, 1908 (Platyptilia)
63a0006 P. percnodactylus (Walsingham, 1880) (Platyptilus) 6110
63a0007 P. comstocki Lange, 1939 (Platyptilia) 6111
63a0008 P. williamsii Grinnell, 1908 (Platyptilia) 6112
63a0009 P. ardua McDunnough, 1927 (Platyptilia) 6113
63a0010 P. washburnensis McDunnough, 1929 (Platyptilia) 6114
63a0011 P. albicans (Fish, 1881) (Platyptilus) 6115

Genus GILLMERIA Tutt, 1905

63a0012 G. pallidactyla (Haworth, 1811) (Alucita) H/I 6107
adustus (Walsingham, 1880) (Platyptilus)
bertrami (Rössler, 1864) (Platyptilus)
bischoffi (Zeller, 1867) (Platyptilus)
cervinidactylus (Packard, 1873) (Pterophorus)
chapmani (Tutt, 1896) (Platyptilia)
foculella (Fuchs, 1901) (Platyptilia)
marginidactylus (Fitch, 1855) (Pterophorus)
nebulaedactylus (Fitch, 1855) (Pterophorus)
ochrodactyla (Treitschke, 1833) (Alucita)
pallidiola (Matsumura, 1931) (Platyptilia)
sachalinensis (Matsumura, 1911) (Platyptilia)
63a0013 G. albertae (Barnes & Lindsey, 1921) (Platyptilia) 6116

Genus ANSTENOPTILIA Zimmerman, 1958
ID INFO: Matthews & Watkins (2011).

63a0014 A. marmarodactyla (Dyar, 1902) (Platyptilia) 6117
fuscicornis of authors; (not Zeller, 1877) (Platyptilia) misappl.
NOTE: Use of this name by Buckell (1947) and others refers to *A. marmarodactyla*; "true" *Postplatyptilia fuscicornis* is a South American species.
pasadenensis (Grinnell, 1908) (Platyptilia)

Genus LANTANOPHAGA Zimmerman, 1958

63a0015 L. pusillidactylus (Walker, 1864) (Oxyptilus) C/I 6119
hemimetra (Meyrick, 1886) (Platyptilia)
lantana (Busck, 1914) (Platyptilia)
lantanadactyla (Amsel, 1951) (Platyptilia)
technidion (Zeller, 1877) (Platyptilia)
teleacma (Meyrick, 1932) (Platyptilia)

Genus STENOPTILODES Zimmerman, 1958

63a0016 S. brevipennis (Zeller, 1874) (Platyptilia) 6122
amrishi Makhan, 1994 (Stenoptilodes)
crenulata (Barnes & McDunnough, 1913) (Platyptilia) [6121]
63a0017 S. antirrhina (Lange, 1939) (Platyptilia) 6123
63a0018 S. taprobanes (Felder & Rogenhofer, 1875) (Amblyptilia) I [NEW]
NOTE: Introduced from Europe; reported from NA by Matthews et al. (1990) and Matthews (2022).
brachymorpha (Meyrick, 1888) (Platyptilia)
legrandi (Bigot, 1962) (Platyptilia)
seeboldi (Hofmann, 1898) (Platyptilia)
terlizzii (Turati, 1926) (Platyptilia)
vittata Service, 1966 (Stenoptilodes)
zavatterii (Hartig, 1953) (Amblyptilia)

Genus STENOPTILIA Hübner, [1825]
ADKINIA Tutt, 1905
DOXOTERES Meyrick, 1886
MIMAESEOPTILUS Wallengren, 1862
MIMESEOPTILUS; Zeller, 1867 emend.

63a0019E S. pterodactyla (Linnaeus, 1761) (Phalaena) EXCL. 6143
NOTE: This is a Palaearctic species and all NA material under this name is misidentified. It was not listed for NA by Matthews (2022).

63a0020 S. zophodactylus (Duponchel, 1838) (Pterophorus) C/I 6144
NOTE: The origin of this cosmopolitan species is unknown.
canalis (Walker, 1864) (Pterophorus)
loewii (Zeller, 1847) (Pterophorus)
semicostatus (Zeller, 1873) (Mimeseoptilus)

63a0021 S. pallistriga Barnes & McDunnough, 1913 (Stenoptilia) 6145

63a0022 S. mengeli Fernald, 1898 (Stenoptilia) 6146
islandicus of authors; (not Staudinger, 1857) (Pterophorus) misappl.
NOTE: "True" *S. islandicus* only occurs in Europe including Iceland (Gielis 2003); NA records are misidentifications.

63a0023 S. exclamationis (Walsingham, 1880) (Mimeseoptilus) 6148

63a0024 S. coloradensis Fernald, 1898 (Stenoptilia) 6149

63a0025 S. columbia McDunnough, 1927 (Stenoptilia) 6150

63a0026 S. grandipuncta McDunnough, 1939 (Stenoptilia) 6151

Genus PARAPLATYPTILIA Bigot & Picard, 1986
ID INFO (partial): Gielis (2008), Landry & Gielis (2008).
MARIANA Tutt, 1906

63a0027 P. grandis (Walsingham, 1880) (Platyptilus) 6124

63a0028 P. carolina (Kearfott, 1907) (Platyptilia) 6125

63a0029 P. immaculata (McDunnough, 1939) (Platyptilia) 6126

63a0030 P. auriga (Barnes & Lindsey, 1921) (Platyptilia) 6127

63a0031 P. edwardsii (Fish, 1881) (Platyptilus) 6128

63a0032 P. baueri (Lange, 1950) (Platyptilia) 6129

63a0033 P. albiciliatus (Walsingham, 1880) (Platyptilus) 6130
canadensis (McDunnough, 1927) (Platyptilia)
orthocarpi (Walsingham, 1880) (Platyptilus)
rubricans (Lange, 1950) (Platyptilia)

63a0034 P. lutescens (Lange, 1950) (Platyptilia) 6131

63a0035 P. albidus (Walsingham, 1880) (Platyptilus) 6132

63a0036 P. shastae (Walsingham, 1880) (Platyptilus) 6133

63a0037 P. nana (McDunnough, 1927) (Platyptilia) 6134

63a0038 P. albidorsellus (Walsingham, 1880) (Platyptilus) 6135

63a0039 P. fragilis (Walsingham, 1880) (Platyptilus) 6136

63a0040 P. maea (Barnes & Lindsey, 1921) (Platyptilia) 6137

63a0041 P. cooleyi (Fernald, 1898) (Platyptilia) 6138

63a0042 P. xylopsamma (Meyrick, 1908) (Platyptilia) 6139
gorgoniensis (Grinnell, 1908) (Stenoptilia)
schwarzi (Dyar, 1903) (Stenoptilia)

63a0043 P. modestus (Walsingham, 1880) (Platyptilus) 6140

63a0044 P. bifida (Lange, 1950) (Platyptilia) 6141

63a0045 P. petrodactylus (Walker, 1864) (Pterophorus) 6142

63a0046 P. atlantica Landry & Gielis, 2008 (Paraplatyptilia) [NEW]

63a0047 P. albui Gielis, 2008 (Paraplatyptilia) [NEW]

63a0048 P. glacialis Gielis, 2008 (Paraplatyptilia) [NEW]

63a0049 P. sabourini Gielis, 2008 (Paraplatyptilia) [NEW]

63a0050 P. watkinsi Gielis, 2008 (Paraplatyptilia) [NEW]

Genus AMBLYPTILIA Hübner, [1825]
AMBLYPTILUS; Wallengren, 1859 emend.

63a0051 A. pica (Walsingham, 1880) (Amblyptilus) 6118
NOTE: The Old World names *acanthodactyla*, *cosmodactyla*, and *punctidactyla* have been used extensively in the historical NA literature, all referring to this species.
acanthodactyla of authors; (not Hübner, [1813]) (Alucita) misappl.
calisequoiae (Lange, 1950) (Platyptilia)
cosmodactyla of authors; (not Hübner, [1819]) (Alucita) misappl.
crataea (Fletcher, 1940) (Platyptilia)
marina (Lange, 1950) (Platyptilia)
monticola (Grinnell, 1908) (Platyptilia)
punctidactyla of authors; (not Haworth, 1811) (Alucita) misappl.
sierra (Lange, 1950) (Platyptilia)

63a0052 A. bowmani (McDunnough, 1923) (Stenoptilia) 6147

Genus MICHAELOPHORUS Gielis, 1999
SHAFFERIA Gielis, 1993

63a0053 M. indentatus (Meyrick, 1930) (Oxyptilus) 6103

Genus LIOPTILODES Zimmerman, 1958
ID INFO: Gielis (2006).

63a0054 L. albistriolatus (Zeller, 1877) (Mimeseoptilus) [NEW]
insperata (Meyrick, 1921) (Stenoptilia)
partiseca (Meyrick, 1931) (Stenoptilia)
parvus (Walsingham, 1880) (Lioptilus) [6120]
trigonometra (Meyrick, 1931) (Stenoptilia)

Genus CNAEMIDOPHORUS Wallengren, 1882
EUCNEMIDOPHORUS Wallengren, 1881

63a0057 C. rhododactyla ([Denis & Schiffermüller], 1775) (Alucita) H/I 6105
koreana (Matsumura, 1931) (Platyptilia)

Tribe EXELASTINI Gielis, 2000

Genus EXELASTIS Meyrick, 1907
ID INFO: Matthews & Landry (2008).
CORDIVALVA Gibeaux, 1994
HEPALASTIS Gibeaux, 1994

63a0058 E. montischristi (Walsingham, 1897) (Pterophorus) [NEW]
cervinicolor (Barnes & McDunnough, 1913) (Pterophorus)
NOTE: This synonym was described from FL but overlooked in previous checklists.

63a0059 E. rhynchosiae (Dyar, 1898) (Pterophorus) [NEW]
NOTE: Described from FL but overlooked in previous checklists.

63a0060 E. pumilio (Zeller, 1873) (Mimeseoptilus) C [NEW]
NOTE: This pantropical species was described from TX, and has been accidentally omitted from previous checklists.
gilvidorsis (Hedemann, 1896) (Mimaesoptilus)
liophanes (Meyrick, 1886) (Marasmarcha)

63a0061 E. dowi Matthews & Landry, 2008 (Exelastis) [NEW]

Tribe OXYPTILINI Bigot, Gibeaux, Nel & Picard, 1998

Genus SPHENARCHES Meyrick, 1886

63a0061.5 S. ontario (McDunnough, 1927) (Pterophorus) 6090

63a0061.6 S. anisodactylus (Walker, 1864) (Oxyptilus) C/I [NEW]
NOTE: This species was reported from NA by Landry (1990) based on an old LA specimen in the USNM and TX records by Ed Knudson, and from FL by Cassani et al. (1990), based on recent collections in FL.
chroesus Strand, 1913 (Sphenarches)
diffusalis (Walker, 1864) (Pterophorus)
rishwani (Makhan, 1994) (Megalorhipida)
synophrys Meyrick, 1886 (Sphenarches)

Genus GEINA Tutt, 1907
ID INFO: Landry (1987, 1989).

63a0062 G. periscelidactylus (Fitch, 1855) (Pterophorus) 6091

63a0063 G. sheppardi Landry, 1989 (Geina) [NEW]

63a0064 G. buscki (McDunnough, 1933) (Pterophorus) 6093

63a0065 G. tenuidactylus (Fitch, 1855) (Pterophorus) 6092
cygnus (Barnes & Lindsey, 1921) (Pterophorus)
nigrociliatus (Zeller, 1873) (Oxyptilus)

Genus CAPPERIA Tutt, 1905
ANACAPPERIA Bigot & Picard, 1986

63a0066 C. ningoris (Walsingham, 1880) (Oxyptilus) 6094
bernardinus (Grinnell, 1908) (Oxyptilus)

63a0067 C. evansi (McDunnough, 1923) (Pterophorus) 6095

63a0068 C. raptor (Meyrick, 1908) (Oxyptilus) 6096

Genus OXYPTILUS Zeller, 1841
ID INFO: Matthews (2017).

63a0069 O. delawaricus Zeller, 1873 (Oxyptilus) 6097
finitimus Grinnell, 1908 (Oxyptilus)

63a0069.1 O. eleanerae Matthews, 2017 (Oxyptilus) [NEW]

Genus DEJONGIA Gielis, 1993

63a0070 D. lobidactylus (Fitch, 1855) (Pterophorus) 6102
63a0071 D. californicus (Walsingham, 1880) (Aciptilus) 6100
wrightii (Grinnell, 1908) (Trichoptilus)

Genus BUCKLERIA Tutt, 1905

63a0072 B. parvulus (Barnes & Lindsey, 1921) (Trichoptilus) 6098

Genus TRICHOPTILUS Walsingham, 1880

63a0073 T. pygmaeus Walsingham, 1880 (Trichoptilus) 6101
63a0073.1 T. potentellus Lange, 1939 (Trichoptilus) REV. STAT. 6099
NOTE: Gielis (2003) synonymized *potentellus* with *T. pygmaeus*. However, Matthews (2006) found *potentellus* to be distinct from *T. pygmaeus* based on larval characters. It is formally returned to species status herein (rev. stat.).

Genus MEGALORHIPIDA Amsel, 1935
MEGALORRHIPIDA; Amsel, 1935 missp.

63a0074 M. leucodactylus (Fabricius, 1794) (Pterophorus) C/I [NEW]
adelphodes (Meyrick, 1887) (Trichoptilus)
centetes (Meyrick, 1886) (Trichoptilus)
compsochares (Meyrick, 1886) (Trichoptilus)
congrualis (Walker, 1864) (Pterophorus)
defectalis (Walker, 1864) (Pterophorus) [6104]
derelictus (Meyrick, 1926) (Trichoptilus)
hawaiiensis (Butler, 1881) (Aciptilia)
ochrodactylus (Fish, 1881) (Trichoptilus)
oxydactylus (Walker, 1864) (Pterophorus)
palaestinensis Amsel, 1935 (Megalorrhipida [sic])
ralumensis (Pagenstecher, 1900) (Trichoptilus)
subtilis (Rebel, 1907) (Trichoptilus)

Tribe OIDAEMATOPHORINI Bigot, Gibeaux, Nel & Picard, 1998

Genus PSELNOPHORUS Wallengren, 1881
ID INFO: Matthews et al. (2014).
CRASIMETIS Meyrick, 1890

63a0075 P. belfragei (Fish, 1881) (Aciptilus) 6154
63a0076 P. chihuahuaensis Matthews, Gielis & Watkins, 2014 (Pselnophorus) [NEW]
63a0077 P. kutisi Matthews, Gielis & Watkins, 2014 (Pselnophorus) [NEW]
63a0078 P. hodgesi Matthews, Gielis & Watkins, 2014 (Pselnophorus) [NEW]

Genus HELLINSIA Tutt, 1905
ID INFO (partial): Matthews (2010).
LEIOPTILUS Wallengren, 1862
LIOPTILUS; Zeller, 1867 emend.
UTUCA Walker, 1864

63a0079 H. fishii (Fernald, 1893) (Alucita) 6167
fishi; (Barnes & McDunnough, 1917) (Pterophorus) missp.
63a0080 H. pollux (Barnes & Lindsey, 1921) (Oidaematophorus) 6177
63a0081 H. mizar (Barnes & Lindsey, 1921) (Oidaematophorus) 6178
63a0081.1 H. hoguei (Gielis, 1996) (Oidaematophorus) [NEW]
NOTE: New addition to the NA fauna based on AZ specimens in the USNM collected by Ron Hodges and provisionally identified by Reed Watkins in 2007.
63a0082 H. gratiosus (Fish, 1881) (Oidaematophorus) 6180
63a0083 H. fieldi (Wright, 1921) (Pterophorus) 6181
63a0083.1 H. meyricki (Barnes & Lindsey, 1921) (Oidaematophorus) REV. STAT. 6179
NOTE: Gielis (1993, 2003) treated *meyricki* as a synonym of *H. fieldi*. Matthews (2006) found these to be distinct species based on morphology of the genitalia, larvae, and pupae, as well as the use of different larval hostplants. It is formally reinstated herein (rev. stat.).
63a0084 H. confusus (Braun, 1930) (Oidaematophorus) 6182
63a0085 H. citrites (Meyrick, 1908) (Pterophorus) 6183
63a0086 H. albilobata (McDunnough, 1939) (Oidaematophorus) 6185
wrangeliensis (Zagulajev, 1985) (Leioptilus) N. SYN.
NOTE: The taxa *wrangeliensis* and *albilobata* have similar genitalia and DNA barcodes, including the sequenced holotype of *wrangeliensis*; *wrangeliensis* is hereby synonymized (n. syn.; contributed by JFL).
63a0086.1 H. brucei (Fernald, 1898) (Pterophorus) N. COMB. 6184
NOTE: The taxa *H. brucei* and its synonym *chionastes* are hereby transferred from *Oidaematophorus* to *Hellinsia* (n. comb.). Female genitalia lack the large "bell-shaped" antrum which Gielis (1993) used as a defining character for *Oidaematophorus*. The corpus bursae also has paired signa, which are absent in *Oidamatophorus* and irregularly present in *Hellinsia*. Male genitalia are similar to *H. albilobata* in having protruding distal apices of the sacculus of both valves.
chionastes (Meyrick, 1908) (Pterophorus)
63a0087 H. inquinatus (Zeller, 1873) (Oidaematophorus) 6186
63a0088 H. eros (Barnes & Lindsey, 1921) (Oidaematophorus) 6187
63a0089 H. pan (Barnes & Lindsey, 1921) (Oidaematophorus) 6188
63a0090 H. phoebus (Barnes & Lindsey, 1921) (Oidaematophorus) 6189
63a0091 H. thor (McDunnough, 1939) (Oidaematophorus) 6190
63a0092 H. triton (Barnes & Lindsey, 1921) (Oidaematophorus) 6191
63a0093 H. integratus (Meyrick, 1913) (Pterophorus) 6192
63a0094 H. auster (Barnes & Lindsey, 1921) (Oidaematophorus) 6193
63a0095 H. medius (Barnes & Lindsey, 1921) (Oidaematophorus) 6194
63a0096 H. linus (Barnes & Lindsey, 1921) (Oidaematophorus) [NEW]
NOTE: Munroe (in Hodges et al. 1983) and Poole & Gentili (1996) used the Old World name *H. lienigianus* for this species.
lienigianus of authors; (not Zeller, 1852) (Pterophorus) misappl. [6195]
63a0097 H. cadmus (Barnes & Lindsey, 1921) (Oidaematophorus) 6196
63a0098 H. iobates (Barnes & Lindsey, 1921) (Oidaematophorus) 6197
63a0099 H. cochise (Barnes & Lindsey, 1921) (Oidaematophorus) 6198
63a0100 H. ares (Barnes & Lindsey, 1921) (Oidaematophorus) 6199
63a0101 H. tinctus (Walsingham, 1915) (Pterophorus) 6200
63a0102 H. thoracica (McDunnough, 1939) (Oidaematophorus) 6201
63a0103 H. helianthi (Walsingham, 1880) (Lioptilus) 6202
63a0104 H. homodactylus (Walker, 1864) (Pterophorus) 6203
63a0105 H. elliottii (Fernald, 1893) (Alucita) 6204
elliotti; (Barnes & McDunnough, 1917) (Pterophorus) missp.
63a0105.1 H. habecki Matthews, 2010 (Hellinsia) [NEW]
63a0107 H. paleaceus (Zeller, 1873) (Leioptilus) 6207
sericadactylus (Murtfeldt, 1880) (Leioptilus)
63a0107.1 H. arion (Barnes & Lindsey, 1921) (Oidaematophorus) 6232
63a0107.2 H. longifrons (Walsingham, 1915) (Pterophorus) 6233
philocremna (Meyrick, 1930) (Stenoptilia) [6152]
NOTE: Synonymy by Gielis (1993).
63a0107.3 H. angustus (Walsingham, 1880) (Lioptilus) REV. STAT. 6206
NOTE: Gielis (1993) synonymized both *H. angustus* and *H. stramineus* with *H. pectodactylus*. The Walsingham holotypes (NHMUK) represent two male genitalic forms which are herein raised back to species (rev. stat.). Given the variability seen in Palaearctic *H. pectodactylus*, more NA material should be examined to further assess variation between populations.
pectodactylus of authors; (not Staudinger, 1859) (Pterophorus) misid.
63a0107.4 H. stramineus (Walsingham, 1880) (Lioptilus) REV. STAT. 6205
NOTE: See note under *H. angustus*.
63a0107.5 H. poulini (Bigot, 2021) (Oidaematophorus) N. COMB. [NEW]
NOTE: The name *poulini* (Bigot & Picard, 2005) is not available because the type repository was not indicated in the original publication. Bigot (2021) republished the description with the type repository included. The available name thus bears a different year and only one author. An image of the holotype genitalia (courtesy of Louis Handfield) is similar to the holotype of *H. stramineus*, and therefore *poulini* is transferred from *Oidaematophorus* to *Hellinsia* (n. comb.). Additional studies will determine whether or not *H. poulini* is indeed distinct from *H. stramineus*.
poulini (Bigot & Picard, 2005) (Oidaematophorus) nom. nud.
63a0107.6 H. sulphureodactylus (Packard, 1873) (Pterophorus) 6216

sulphureidactylus; (Meyrick, 1910) (Pterophorus) missp.
sulphureus (Walsingham, 1880) (Lioptilus)

63a0108 H. venapunctus (Barnes & Lindsey, 1921) (Oidaematophorus) 6208

63a0108.1 H. catalinae (Grinnell, 1908) (Pterophorus) N. COMB. 6231

NOTE: Here transferred from *Oidaematophorus* to *Hellinsia* (n. comb.). Female genitalia lack the large "bell-shaped" antrum which Gielis (1993) used as a defining character for *Oidaematophorus*.

63a0109 H. luteolus (Barnes & Lindsey, 1921) (Oidaematophorus) 6209

63a0110 H. balanotes (Meyrick, 1908) (Pterophorus) 6210
aquila (Meyrick, 1908) (Pterophorus)

63a0110.1 H. serenus (Meyrick, 1913) (Pterophorus) REV. STAT. 6217

NOTE: This species is herein reinstated as distinct from *H. balanotes* (rev. stat.) based on differences in wing maculation and male and female genitalia. Identified specimens are present in both the USNM and MGCL. Barnes & Lindsey (1921) illustrate an adult and male genitalia of a specimen that they indicate was identified by Meyrick via comparison with his type. Gielis (2003) synonymized *H. serenus* with *H. balanotes* without comment. Clarke (1955) lists *H. serenus* as a Meyrick type but did not indicate a repository. The current location of the type is unknown.

63a0111 H. grandis (Fish, 1881) (Lioptilus) 6211
baccharides (Grinnell, 1908) (Pterophorus)

63a0112 H. kellicottii (Fish, 1881) (Lioptilus) 6212
kellicotti; (Meyrick, 1910) (Pterophorus) missp.

63a0113 H. chlorias (Meyrick, 1908) (Pterophorus) [NEW]

63a0114 H. lacteodactylus (Chambers, 1873) (Pterophorus) 6213

63a0115 H. glenni (Cashatt, 1972) (Oidaematophorus) 6214

63a0116 H. subochraceus (Walsingham, 1880) (Lioptilus) 6215
australis (Grinnell, 1908) (Pterophorus) [6218]

NOTE: Synonymized by Gielis (1993). Male genitalia of *australis* (originally described by Grinnell as a subspecies of *H. subochraceus*) and *H. subochraceus* are illustrated by Barnes & Lindsey (1921). These appear to represent two species with *australis* being more variable in the length of the left valve saccular process. However, *australis* is retained as a synonym here pending additional study.

63a0118 H. costatus (Barnes & Lindsey, 1921) (Oidaematophorus) 6219

63a0119 H. falsus (Barnes & Lindsey, 1921) (Oidaematophorus) 6220

63a0120 H. varius (Barnes & Lindsey, 1921) (Oidaematophorus) 6221

63a0121 H. varioides (McDunnough, 1939) (Oidaematophorus) 6222

63a0122 H. corvus (Barnes & Lindsey, 1921) (Oidaematophorus) 6223

63a0123 H. perditus (Barnes & Lindsey, 1921) (Oidaematophorus) 6224

63a0124 H. simplicissimus (McDunnough, 1938) (Oidaematophorus) 6225

63a0125 H. unicolor (Barnes & McDunnough, 1938) (Pterophorus) 6226

63a0126 H. inconditus (Walsingham, 1880) (Lioptilus) 6227

63a0127 H. caudelli (Dyar, 1903) (Pterophorus) 6228

63a0128 H. rigidus (McDunnough, 1938) (Oidaematophorus) 6229

63a0129 H. contortus (McDunnough, 1938) (Oidaematophorus) 6230

Genus OIDAEMATOPHORUS Wallengren, 1862
OEDAEMATOPHORUS; Zeller, 1867 emend.
OVENDENIA Tutt, 1905

63a0133 O. occidentalis Walsingham, 1880 (Oidaematophorus) 6161
californica (Grinnell, 1908) (Stenoptilia)

63a0134 O. balsamorrhizae McDunnough, 1939 (Oidaematophorus) 6162

63a0135 O. cretidactylus (Fitch, 1855) (Pterophorus) 6163
gypsodactylus Walsingham, 1880 (Oidaematophorus)

63a0136 O. downesi McDunnough, 1927 (Oidaematophorus) 6164

63a0137 O. guttatus Walsingham, 1880 (Oidaematophorus) 6165

63a0138 O. mathewianus (Zeller, 1874) (Leioptilus) 6166
gorgoniensis (Grinnell, 1908) (Pterophorus)
hilda (Grinnell, 1908) (Pterophorus)

63a0139 O. eupatorii (Fernald, 1891) (Alucita) 6168

63a0140 O. rogenhoferi (Mann, 1871) (Pterophorus) H [NEW]
alaskensis Barnes & Lindsey, 1921 (Oidaematophorus) [6169]

63a0141 O. phaceliae McDunnough, 1938 (Oidaematophorus) 6170

63a0142 O. grisescens Walsingham, 1880 (Oidaematophorus) 6171
acrias (Meyrick, 1908) (Pterophorus)
behrii (Grinnell, 1908) (Pterophorus)

63a0143 O. cineraceus Fish, 1881 (Oidaematophorus) 6172
lugubris Fish, 1881 (Oidaematophorus)

63a0144 O. rileyi (Fernald, 1898) (Pterophorus) 6173

63a0145 O. lindseyi McDunnough, 1923 (Oidaematophorus) 6174

63a0146 O. baroni Fish, 1881 (Oidaematophorus) 6175

63a0147 O. castor Barnes & Lindsey, 1921 (Oidaematophorus) 6176

Genus EMMELINA Tutt, 1905

63a0150 E. monodactyla (Linnaeus, 1758) (Phalaena) H/I 6234
barberi (Dyar, 1903) (Pterophorus)
bidactyla (Hochenwarth, 1785) (Phalaena)
cineridactylus (Fitch, 1855) (Pterophorus)
flaveodactylus (Amary, 1840) (Pterophorus)
impersonalis (Walker, 1864) (Pterophorus)
naevosidactylus (Fitch, 1855) (Pterophorus)
pergracilidactylus (Packard, 1873) (Pterophorus)
pictipennis (Grinnell, 1908) (Pterophorus)
pterodactyla (Hübner, [1805]) (Alucita)
rufa (Dufrane, 1960) (Pterophorus)

63a0151 E. buscki (Barnes & Lindsey, 1921) (Adaina) 6159

Genus ADAINA Tutt, 1905

63a0152 A. bipunctatus (Möschler, 1890) (Pterophorus) 6155

63a0153 A. simplicius (Grossbeck, 1917) (Pterophorus) [NEW]

63a0154 A. zephyria Barnes & Lindsey, 1921 (Adaina) 6156

63a0155 A. montanus (Walsingham, 1880) (Aciptilus) 6157
declivis (Meyrick, 1913) (Pterophorus)

63a0156 A. cinerascens (Walsingham, 1880) (Aciptilus) 6158

63a0157 A. ambrosiae (Murtfeldt, 1880) (Oedaematophorus) 6160
participatus (Möschler, 1890) (Pterophorus)

63a0158 A. perplexus (Grossbeck, 1917) (Pterophorus) [NEW]

63a0159 A. primulacea Meyrick, 1929 (Adaina) [NEW]

NOTE: Recent NA addition, discovered in FL by Matthews & Maharajh (2009).

63a0160 A. ipomoeae Bigot & Etienne, 2009 (Adaina) [NEW]

NOTE: Recent addition to the NA fauna, in FL (Matthews & Gielis 2011).

63a0161E A. parainvida Gielis, 1992 (Adaina) EXCL. [NEW]

NOTE: This species is excluded herein from the NA fauna. It was erroneously listed for NA in draft checklists, an earlier version of Matthews (2022), and in Pohl et al. (2016), based on undetermined specimens from TX which bear a striking similarity to *A. parainvida* but have distinct male genitalia.

63a0162 A. thomae (Zeller, 1877) (Leioptilus) [NEW]

NOTE: Added to the NA fauna based on a pinned FL specimen (MGCL) collected by Jim Vargo, and on flight trap samples in alcohol (Matthews 2022).

Tribe PTEROPHORINI Latreille, [1802]

Genus SINGULARIA Arenberger, 1988
ACIPTILIA Schäffer, 1766
MERRIFIELDIA Tutt, 1905
PORRITTIA Tutt, 1905
WHEELERIA Tutt, 1905

63a0163 S. walsinghami (Fernald, 1898) (Alucita) 6153

Superfamily CARPOSINOIDEA Walsingham, 1897

65. Family COPROMORPHIDAE Meyrick, 1905 (tropical fruitworm moths)

by James D. Young

Copromorphids are small moths, with wingspans from 12 to 50 mm (12 to 20 mm in the Nearctic region). Generally, all or nearly all wing veins are present and separate in the forewing and all three M veins are present in the hindwing. The NA taxa have forewings that have rounded tips and a strongly back-sloping distal edge. In contrast, species from the Oriental and Australian regions have a truncate-shaped forewing. The NA taxa are generally brown to tan and nondescript. The few species for which the immature stages are known suggest the larvae tunnel in fruit, leaf veins, twigs, or flower inflorescences, or feed between joined leaves.

Copromorphidae is a small, poorly defined family that needs further taxonomic study. There are about 40 species worldwide with the highest diversity in the Oriental and Australian regions. The family is absent from the Palaearctic region entirely. Nine species are known from the Nearctic.

Genus LOTISMA Busck, 1909
ID INFO: Heppner (1986).

65a0001	L. trigonana (Walsingham, 1879) (Sciaphila) *durangoensis Heppner, 1986 (Lotisma)* *kincaidiella (Busck, 1904) (Hemerophila)*	2312

Genus ELLABELLA Busck, 1925
ID INFO: Heppner (1984).

65a0002	E. bayensis Heppner, 1984 (Ellabella)	[NEW]
65a0003	E. johnstoni Heppner, 1984 (Ellabella)	[NEW]
65a0004	E. melanoclista (Meyrick, 1927) (Probolacma)	2349
65a0005	E. editha Busck, 1925 (Ellabella)	2348

Genus ARAEOLEPIA Walsingham, 1881
ID INFO: Sohn (2016).
NOTE: Sohn (2016) moved this genus out of Glyphipterigidae (Yponomeutoidea), and placed it in Carposinoidea, "probably in Copromorphidae", and that placement is followed herein.

65a0005.5	A. subfasciella Walsingham, 1881 (Araeolepia)	2347
65a0005.6	A. leuschneri Sohn, 2016 (Araeolepia)	[NEW]
65a0005.7	A. ustulana Sohn, 2016 (Araeolepia)	[NEW]
65a0005.8	A. triangula Sohn, 2016 (Araeolepia)	[NEW]

66. Family CARPOSINIDAE Walsingham, 1897 (fruitworm moths)

by James D. Young

Fruitworm moths are very small to small moths with lanceolate forewings and broad hindwings that have M1 and occasionally M2 absent. Wingspans range from 10 to 30 mm (10 to 18 mm in the Nearctic region). Both sexes frequently have raised scale tufts on the forewings; however, these are often flattened during collection or spreading, so they are not always apparent in pinned specimens. Larvae are believed to be entirely internal feeders with most species being known from fruits, galls, and stems. Larvae have also been observed as leaf miners, in living bark, and in tree wounds.

The family Carposinidae contains 283 named species with the highest diversity occurring in the Australian and Pacific regions. In NA, the family was last revised by Davis (1969). Eleven species are recorded in the Nearctic region. However, recent investigations by the author have found another eight to 10 species occurring in our region. A revision of the genus *Carposina* is currently underway.

Genus CARPOSINA Herrich-Schäffer, 1855

65a0006.1 C. ottawana Kearfott, 1907 (Carposina) [NEW]
NOTE: This taxon was restored to species status by Young & Robertson (2020). It is not a subspecies of *C. sasakii* or *C. niponensis*; both those names refer to valid species that do not occur in NA (*C. niponensis* was resurrected as a valid species distinct from *C. sasakii* by Nasu et al. (2010)).
nicholsana Forbes, 1923 (Carposina)
niponensis of authors; not Walsingham, 1900 (Carposina) misappl. *[2314]*
sasakii of authors; not Matsumura, 1900 (Carposina) misappl.
65a0007 C. fernaldana Busck, 1907 (Carposina) 2315
65a0008 C. simulator Davis, 1969 (Carposina) 2316
65a0009 C. biloba Davis, 1969 (Carposina) 2317

Genus BONDIA Newman, 1856

65a0010 B. comonana (Kearfott, 1907) (Carposina) 2318
euryleuca (Meyrick, 1912) (Carposina)
65a0011 B. crescentella (Walsingham, 1882) (Carposina) 2319
65a0012 B. shastana Davis, 1969 (Bondia) 2320
65a0013 B. spicata Davis, 1969 (Bondia) 2321
65a0014 B. fidelis Meyrick, 1913 (Bondia) 2322
65a0015 B. fuscata Davis, 1969 (Bondia) 2323

Genus TESUQUEA Klots, 1936

65a0016 T. hawleyana Klots, 1936 (Tesuquea) 2324

Superfamily EPERMENIOIDEA Spuler, 1910

67. Family EPERMENIIDAE Spuler, 1910 (fringe-tufted moths)

by Reinhard Gaedike & Gregory R. Pohl

Fringe-tufted moths are small, cryptically-patterned moths, with wingspans from 10 to 20 mm in NA. Probable autapomorphies include: two rows of stiff bristles on the hind tibiae; tufts of raised scales on the upper surface of the forewings (in most species); larval submentum with posterior protuberance and prothoracic prespiracular L group bisetose; and the pupa unspined, with abdominal segments I to IV immovable and segment IX with characteristic paired lateral pits. The family Epermeniidae is the only representative of the superfamily Epermenioidea (Dudgale et al. 1999). The phylogenetic relationships with other superfamiles within the Apoditrysia remain uncertain.

The larvae (when known) live in mines of leaves (sometimes only in the first stages), and/or they skeletonize leaves and seeds; larvae of some taxa live inside galls. The main plant family from which host records are known is Umbelliferae; other host records are known from Araliaceae, Celastraceae, Epacridaceae, Leguminosae, Loranthaceae, Olacaceae, Pittosporaceae, and Santalaceae. Eiseman (2019) has presented a compilation of the natural history data for the Nearctic members of the genus *Epermenia*.

Based on an attempt to arrange the genera phylogenetically (Gaedike 1977), the family was divided into two subfamilies: Ochromolopinae and Epermeniinae. Epermeniidae are distributed in all zoogeographical regions with 156 species in 13 genera. Gaedike (1996) published a world catalog. In NA, the family is represented by 12 species in three genera. The NA species were treated by Gaedike (1977, 2008).

Subfamily EPERMENIINAE Spuler, 1910

Tribe EPERMENIINI Spuler, 1910

Genus EPERMENIA Hübner, 1825
ID INFO: Gaedike (2008); also Eiseman (2019).

ACANTHEDRA Meyrick, 1917
CATAPLECTICA Walsingham, 1894
CHAULIODUS Treitschke, 1833
CHAULIOMORPHA Blanchard, 1840
EPERMENIOLA Gaedike, 1968
EPIMENIA; Kearfott, 1903 missp.
HEYDENIA Hofmann, 1868
LOPHONOTUS Stephens, 1834
TICHOTRIPIS Hübner, 1825

Subgenus CALOTRIPIS Hübner, 1825
CALOTRYPIS; Agassiz, 1847 emend.

67a0001	E. imperialella Busck, 1906 (Epermenia)	2325
67a0002	E. falcata Gaedike, 2008 (Epermenia)	[NEW]
67a0003	E. canadensis Gaedike, 2008 (Epermenia)	[NEW]
67a0004	E. stolidota (Meyrick, 1917) (Acanthedra)	2326
67a0005	E. californica Gaedike, 1977 (Epermenia)	2327
67a0006	E. albapunctella Busck, 1908 (Epermenia)	2328
67a0007	E. cicutaella Kearfott, 1903 (Epimenia [sic])	2329
	alameda Braun, 1923 (Epermenia)	
67a0008	E. pimpinella Murtfeldt, 1900 (Epermenia)	2330
67a0009	E. lomatii Gaedike, 1977 (Epermenia)	2331
67a0010	E. infracta Braun, 1926 (Epermenia)	2332
	strictelloides Gaedike, 1977 (Epermenia)	*[2333]*

Subfamily OCHROMOLOPINAE Gaedike, 1966

Genus OCHROMOLOPIS Hübner, 1825

67a0011	O. ramapoella (Kearfott, 1903) (Epimenia)	2334
	bidentata (Braun, 1926) (Epermenia)	
	metrothetis (Meyrick, 1921) (Epermenia)	

Genus PAROCHROMOLOPIS Gaedike, 1977

67a0012	P. floridana Gaedike, 1977 (Parochromolopis)	2335

Superfamily THYRIDOIDEA Herrich-Schäffer, 1846

68. Family THYRIDIDAE Herrich-Schäffer, 1846 (window-winged moths)

by Gregory R. Pohl

Window-winged moths in NA are small moths, with wingspans of 12 to 25 mm (up to 72 mm elsewhere). Most Nearctic species have dark wings patterned in reticulated rows of spots, frequently with translucent patches (hence the common name). Adults rest in a distinctive posture with the front of the body strongly raised, the midlegs not touching the substrate, and the wings outstretched or swept back. Many species mimic dead leaves. The larvae are primarily stem borers, leaf tiers, or leaf folders. A few are gall formers.

The family Thyrididae consists of about 940 described species, mostly in the tropics and subtropics. Thirteen species are recorded in the Nearctic region. The group has not been revised for many years. The higher classification presented here follows Shaffer & Nielsen (in Nielsen et al. 1996).

Subfamily STRIGLININAE Guenée, 1877

Genus BANISIA Walker, 1864
ID INFO (partial): Martinez et al. (2017).
DURDARA Moore, 1882
NEOBANISIA Whalley, 1967
TROPHOESSA Turner, 1911
VERNIFILIA Schultze, 1907

70.0001 B. myrsusalis (Walker, 1859) (Pyralis) 6086
cinereola (Felder & Rogenhofer, 1875) (Siculodes)
immaculata (Möschler, 1890) (Striglina)
radiata (Pagenstecher, 1892) (Striglina)
scallula (Guenée, 1868) (Striglina)

70.0001.1 B. argutula Whalley, 1976 (Banisia) [NEW]

70.0002 B. furva (Warren, 1905) (Letchena) extralim. 6087
ssp. a. fracta Whalley, 1976 (Banisia)

Subfamily THYRIDINAE Herrich-Schäffer, 1846

Genus THYRIS Laspeyres, 1803

70.0003 T. maculata Harris, 1839 (Thyris) 6076
perspicua (Walker, 1856) (Sagalassa)

Genus PSEUDOTHYRIS Thiele, 1986

70.0004 P. sepulchralis (Guérin-Méneville, 1832) (Thyris) 6077
lugubris (Boisduval, 1852) (Thyris)
margaritana (Clemens, 1862) (Dysodia)

Genus DYSODIA Clemens, 1860
PACHYTHYRIS Felder & Rogenhofer, 1874
PLATYTHYRIS Grote & Robinson, 1867
VARNIA Walker, 1864

70.0005 D. oculatana Clemens, 1860 (Dysodia) 6078
aurea (Pagenstecher, 1892) (Varnia)
fasciata (Grote & Robinson, 1867) (Platythyris)
montana (Edwards, 1875) (Thyris)
plena (Walker, 1865) (Varnia)

70.0006 D. granulata (Neumoegen, 1883) (Platythyris) 6079
igualensis Dyar, 1913 (Dysodia)

70.0007 D. speculifera (Sepp, 1830) (Phalaena) 6080
aequalis (Walker, 1865) (Varnia)

70.0008 D. flagrata (Walker, 1865) (Farnia) 6081
floridana Hulst, 1886 (Dysodia)

Subfamily SICULODINAE Guenée, 1858

Tribe ARGYROTYPINI Handlirsch, 1925

Genus HEXERIS Grote, 1875
OTTOLENGUIA Beutenmüller, 1896

70.0009 H. enhydris Grote, 1875 (Hexeris) 6082
reticulana (Beutenmüller, 1896) (Ottolenguia)

Tribe SICULODINI Guenée, 1858

Genus MESKEA Grote, 1877

70.0010 M. dyspteraria Grote, 1877 (Meskea) 6085

Tribe RHODONEURINI Whalley, 1971

Genus BELONOPTERA Herrich-Schäffer, 1858

70.0011 B. fratercula (Pagenstecher, 1892) (Siculodes) 6083

Genus RHODONEURA Guenée, 1857
IZA Walker, 1865
SICULODES Guenée, 1859

70.0012 R. terminalis (Walker, 1865) (Iza) 6084
subapicula (Dyar, 1913) (Meskea)

Superfamily HYBLAEOIDEA Hampson, 1903

69. Family HYBLAEIDAE Hampson, 1903 (teak moths)

by Gregory R. Pohl

Hyblaeidae are medium-sized moths (wingspans of about 40 mm) with broad wings and stout bodies. Superficially they look like noctuid moths, but they lack a metathoracic tympanum. Autapomorphies include a coxal process on the male tibiae to house tibial hair pencils, and strongly spined tibiae. The larvae construct silken galleries between tied leaves. Host plants are in the families Verbenaceae, Rhizophoraceae, Myrtaceae, and Bignoniaceae. The larvae are capable of forcibly regurgitating their gut contents as a defensive action.

Historically, the Hyblaeidae have been placed in the Noctuoidea or the Pyraloidea. They share some affinities with the Thyrididae but are currently placed in their own superfamily.

About 20 Hyblaeidae species are known worldwide, primarily in the Old World tropics. One species, *Hyblaea puera*, has been introduced to the New World. It is a serious defoliator of Teak (*Tectona grandis* L.f.: Verbenaceae) and other tropical hardwoods.

Genus HYBLAEA Fabricius, 1793
AENIGMA Strecker, 1876

720001 H. puera (Cramer, [1777]) (Phalaena) I 6088
NOTE: Introduced from southeast Asia to the New World tropics, including parts of NA.
apricans (Boisduval, 1834) (Heliothis)
limacodella (Walker, 1866) (Nabara)
mirificum (Strecker, 1876) (Aenigma)
saga (Fabricius, 1787) (Noctua)
unxia (Hübner, 1810) (Noctua)

Superfamily PAPILIONOIDEA Latreille, [1802]

The classification presented here is based on the February 2022 version of the online butterfly catalog by Pelham (2022), which incorporates recent work by Cong et al. (2019), Zhang et al. (2019b, 2020, 2021, 2022a-d) and others. However, the original printed version of the catalog (Pelham 2008) is considered the most recent formal baseline, and we have attempted to detail any deviations from it in the notes. For two introduced species (*Pieris rapae* and *Polyommatus icarus*), we have omitted lengthy lists of Palaearctic synonyms.

Unlike other parts of the list, for Papilionoidea (butterflies) we cite only a few recent taxonomic works as identification sources, as they are much better known than moths and there are many comprehensive and regional guides available in print and online.

Notes in this portion of the list are kept as brief as possible and are primarily used to summarize additions and changes at the species level since Pelham (2008), and to clarify which taxonomic entity is being referred to. Much more information regarding alternative taxonomic interpretations is found in Pelham (2008, 2022). We have not exhaustively gone through the vast Nearctic butterfly literature to extract all instances of misidentifications, misapplied Old World names, mentions of hypothetical records, etc. Pelham (2008) provided (in the appendices therein) an extensive list of names used in error in the Nearctic and names of uncertain status in the Nearctic. Many of those are detailed here, but users are referred to the aforementioned catalog editions for details on butterflies, including butterfly names that are not found in the current list. Designation of stray species are based on information provided by Brock & Kaufman (2003) except as noted.

NOTE: Two large papers (Zhang et al. 2023a, b) with further taxonomic changes to the Papilionoidea were published shortly after the cutoff date for inclusion in the current checklist. It was not possible to incorporate those results here.

70. Family HESPERIIDAE Latreille, 1809 (skippers)

by Jonathan P. Pelham & Gregory R. Pohl

Skippers are primarily small to medium-sized butterflies (wingspans from about 15 to 75 mm in NA species), with characteristic rapid, darting flight. The head is broad, the antennae are usually clubbed or hooked at the tip, and the wings are often brown, grey, and/or orange. The larvae of most species live in silk-lined nests that they construct on the food plant by cutting and folding leaves or by binding several leaves together. A few bore into plant tissues. They feed on a variety of flowering plants.

Classification of the group has undergone significant changes recently, incorporating recent molecular analyses. The results of these analyses are presented in several recent papers, including new higher taxa and genera described by Li et al. (2019); many new genera described by Cong et al. (2019); and several new subgenera and new combinations by Zhang et al. (2019b, 2020, 2021, 2022a-d). The Hesperiidae were included in the Nearctic butterfly catalog published online recently by Pelham (2022), and the classification in the current work is almost identical.

The family Hesperiidae contains more than 4,100 species worldwide. There are 315 species known in the Nearctic region, including one extirpated species. This family is extremely diverse in the neotropics, and the Nearctic fauna includes many species that occur only in the extreme south of the region.

Subfamily EUDAMINAE Mabille, 1877

NOTE: Higher classification of the subfamily Eudaminae follows Li et al. (2019).

Tribe PHOCIDINI Tutt, 1906

Genus PHOCIDES Hübner, [1819]

DYSENIUS Scudder, 1872
ERYCIDES Hübner, [1819]

77a0001 P. batabano (Lucas, 1857) (Eudamus) extralim. [NEW]
NOTE: Zhang et al. (2021) determined that *P. batabano* is a full species distinct from *P. pigmalion*, and that *okeechobee* is a subspecies of it rather than of *P. pigmalion*.
ssp. a. okeechobee (Worthington, 1881) (Erycides)
pigmalion of authors; (not Cramer, [1779]) (Papilio) misappl. *[3865]*

77a0002 P. belus Godman & Salvin, 1893 (Phocides) [NEW]

77a0003 P. lilea (Reakirt, [1867]) (Erycides) [NEW]
NOTE: Zhang et al. (2020) treated this as a species distinct from *P. polybius*. Under this arrangement, *P. polybius* does not occur in NA. The name *palemon* Cramer, [1777] was used by Miller & Brown (in Hodges et al. 1983). It is a synonym of *P. polybius* and is an unavailable name, preoccupied by *Papilio palaemon* Pallas, 1771 (the variant spellings *palemon* and *palaemon* are deemed identical under Article 58.1 of the ICZN).
albiciliata Röber, 1925 (Phocides)
albicilla (Herrich-Schäffer, 1869) (Erycides)
cruentus (Scudder, 1872) (Dysenius)
decolor (Mabille, 1880) (Erycides)
palemon of authors; (not Cramer, [1777]) (Papilio) misappl.; unavail. *[3866]*
polybius of authors; (not Fabricius, 1793) (Hesperia) misappl.
sanguinea (Scudder, 1872) (Erycides)
socius (Butler & Druce, 1872) (Erycides)
spurius (Mabille, 1880) (Erycides)

77a0004 P. urania (Westwood, 1852) (Erycides) UNVER.; STRAY 3867
NOTE: The synonym *texana* was described from TX specimens, but there is some doubt about their provenance, and the species was excluded from the NA fauna by Pelham (2008). Other reports of this species from NA have not been substantiated; see Pelham (2008; Appendix I). However, the species is known from northern Mexico, and is considered a likely candidate to stray into the USA.
ssp. a. urania (Westwood, 1852) (Erycides) (unver.; stray)
texana (Scudder, 1872) (Erycides)

Tribe EUDAMINI Mabille, 1877

Subtribe EUDAMINA Mabille, 1877

NOTE: Li et al. (2019) and Grishin (2019) restructured the Eudamini, treated *Murgaria* and *Thorybes* as subgenera of *Cecropterus* Herrich-Schäffer, 1869, and arranged specific taxa among several genera. Their placement of species is accepted but several of their changes to genus level are not adopted herein.

Genus MURGARIA Watson, 1893
THESSIA Steinhauser, 1989

77a0005 M. albociliatus (Mabille, 1877) (Telegonus) 3906
ssp. a. albociliatus (Mabille, 1877) (Telegonus)
77a0006 M. toxeus (Plötz, 1882) (Aethilla) 3907
coyote (Skinner, 1892) (Eudamus)
nigrociliata Mabille & Boullet, 1912 (Murgaria)
77a0007 M. jalapus (Plötz, 1881) (Eudamus) STRAY 3908
xerxes (Bell, 1934) (Telegonus)
77a0008 M. doryssus (Swainson, 1831) (Eudamus) STRAY 3894
ssp. a. doryssus (Swainson, 1831) (Eudamus) (stray)
albimargo of authors; (not Mabille, 1876) (Thymele) misid. *[3895]*
NOTE: Reputed NA material was misidentified *M. doryssus* (Pelham 2008).
brachius (Geyer, 1832) (Goniurus)
cleopatra (Ehrmann, 1907) (Goniurus)
interruptus (Williams, 1926) (Eudamus)
leucites (Mabille, 1888) (Eudamus)

Genus THORYBES Scudder, 1872
ACHALARUS Scudder, 1872
COCCEIUS Godman & Salvin, 1894
LINTNERIA Edwards & Butler, 1877

77a0009 T. egregius (Butler, 1870) (Telegonus) STRAY 3897
ssp. a. egregius (Butler, 1870) (Telegonus) (stray)
77a0010 T. dorantes (Stoll, 1790) (Papilio) 3889
ssp. a. dorantes (Stoll, 1790) (Papilio)
amisus (Hewitson, 1867) (Eudamus)
atletes (Felder & Felder, 1862) (Eudamus)
corydon (Butler, 1870) (Goniurus)
kefersteinii (Plötz, 1881) (Goniurus)
protillus (Herrich-Schäffer, 1869) (Eudamus)
rauterbergi (Skinner, 1895) (Eudamus)
retractus (Plötz, 1881) (Goniurus)
torones (Hübner, 1821) (Goniurus)
ssp. b. calafia (Williams, 1926) (Eudamus)
NOTE: This subspecies was added to the NA fauna based on CA records reported in the 2018 Season Summary of the Lepidopterists' Society (2019).
77a0011 T. lyciades (Geyer, 1832) (Proteides) 3904
hedysarum (Scudder, 1889) (Papilio)
lycidas (Smith, 1797) (Papilio)
77a0012 T. casica (Herrich-Schäffer, 1869) (Eudamus) 3905
epigena (Butler, 1870) (Eudamus)
orestes (Edwards, 1877) (Eudamus)
77a0013 T. bathyllus (Smith, 1797) (Papilio) 3909
daunus (Cramer, [1777]) (Papilio)
syloson (Mabille, 1903) (Cocceius)
77a0014 T. nevada Scudder, 1872 (Thorybes) [NEW]
NOTE: Raised from subspecies of *T. mexicana* by Zhang et al. (2020), and the taxa *aemilea* and *blanca* were revised to subspecies of *T. nevada* therein. Under this arrangement, *T. mexicana* does not occur north of Mexico.
mexicana of authors; (not Herrich-Schäffer, 1869) (Eudamus) misappl. *[3912]*
ssp. a. aemilea (Skinner, 1893) (Eudamus)
ssp. b. nevada Scudder, 1872 (Thorybes)
ssp. c. blanca Scott, 1981 (Thorybes)
77a0015 T. dobra Evans, 1952 (Thorybes) [NEW]
NOTE: Raised from subspecies of *T. mexicana* by Zhang et al. (2020).
77a0016 T. diversus Bell, 1927 (Thorybes) 3911
77a0017 T. pylades (Scudder, 1870) (Eudamus) 3910
ssp. a. pylades (Scudder, 1870) (Eudamus)
immaculata (Skinner, 1911) (Eudamus)
integra Lanktree, 1968 (Thorybes)
ssp. b. indistinctus Austin & Emmel, 1998 (Thorybes)
ssp. c. albosuffusa Freeman, 1943 (Thorybes)
77a0018 T. drusius (Edwards, [1884]) (Eudamus) 3914
paucipuncta Dyar, 1916 (Thorybes)
77a0019 T. tehuacana (Draudt, 1922) (Rhabdoides) [NEW]
NOTE: Recorded from TX by Hardy et al. (2010).
77a0020 T. confusis Bell, 1923 (Thorybes) 3913
confusus; Holland, 1931 (Thorybes) emend.
77a0021 T. cincta (Plötz, 1882) (Cecropterus) [NEW]
rotundatus (Mabille, 1883) (Telegonus)
77a0022X T. pseudocellus (Coolidge & Clemence, [1910]) (Achalarus) EXTIRPATED 3903
NOTE: This taxon has apparently been extirpated from the USA, as noted by Bailowitz & Brock (1991).

Genus SPICAUDA Grishin, 2019

77a0023 S. simplicius (Stoll, 1790) (Papilio) 3892
borja (Ehrmann, 1907) (Thymele)
gracillcauda (Plötz, 1881) (Goniurus)
pilatus (Plötz, 1881) (Goniurus)
thiemei (Ehrmann, 1907) (Thymele)
77a0024 S. procne (Plötz, 1881) (Goniurus) 3893
77a0025 S. teleus (Hübner, 1821) (Goniurus) 3890
eurycles (Latreille, [1824]) (Hesperia)
latipennis (Mabille & Vuillot, 1891) (Goniurus)
zalanthus (Plötz, 1881) (Goniurus)
77a0026 S. tanna (Evans, 1952) (Urbanus) 3891

Genus URBANUS Hübner, [1807]
EUDAMUS Swainson, 1831
GONIURUS Hübner, [1819]
LYROPTERA Plötz, 1881
THYMELE [Illiger], 1807

Subgenus URBANOIDES Grishin, 2019

77a0027 U. esmeraldus (Butler, 1877) (Goniurus) 3888

Subgenus URBANUS Hübner, [1807]

77a0028 U. proteus (Linnaeus, 1758) (Papilio) 3886
ssp. a. proteus (Linnaeus, 1758) (Papilio)
fortis Skinner & Ramsden, 1924 (Urbanus)
proteoides (Plötz, 1881) (Goniurus)
77a0029 U. pronus Evans, 1952 (Urbanus) [NEW]
plinius Bell, 1956 (Urbanus)
pronta of authors; not Evans, 1952 (Urbanus) misid. *[3887]*
NOTE: NA material reported as *U. pronta* was a misidentification of *U. pronus* (Pelham 2008).
77a0030 U. evona Evans, 1952 (Urbanus) UNVER. [NEW]
NOTE: This species was reported by Glassberg (2004), based on a photo record that cannot be confirmed, as dissection is required; the species was excluded from the NA fauna by Pelham (2008) pending a verified record.
77a0031 U. alva Evans, 1952 (Urbanus) [NEW]
NOTE: Zhang et al. (2019b) elevated this taxon to species rank. It was previously reported in NA as *U. belli* subspecies *alva* Evans; "true" *U. belli* does not occur in NA (Zhang et al. 2019b).
belli of authors; (not Hayward, 1935) (Goniurus) misappl.
77a0032 U. viterboana (Ehrmann, 1907) (Thymele) [NEW]
NOTE: Recorded from TX by the 2010 Season Summary of the Lepidopterists' Society (2011).

Genus ASTRAPTES Hübner, [1819] (excl.)

77a0033E A. galesus (Mabille, 1888) (Telegonus) EXCL. 3900
NOTE: This species has been reported from NA going back to Skinner (1901), but there are no verified NA records. It was excluded by Pelham (2008).

Genus TELEGONUS Hübner, [1819]

Subgenus TELEGONUS Hübner, [1819]
EUTHYMELE Mabille, 1878

77a0034 T. catemacoensis (Freeman, 1967) (Astraptes) [NEW]
NOTE: Li et al. (2019) recognized *T. catemacoensis* as a valid species for NA populations previously treated as *T. fulgerator*.
fulgerator of authors; (not Walch, 1775) (Papilio) misappl. *[3896]*

77a0035 T. talus (Cramer, [1777]) (Papilio) [NEW]
NOTE: Bordelon (2015) records this species for TX.
ausonius (Latreille, [1824]) (Hesperia)
lucidator (Sepp, [1841]) (Papilio)
sumadue (Lucas, 1857) (Eudamus)
virens (Röber, 1925) (Goniurus)

Subgenus RHABDOIDES Scudder, 1889

77a0036 T. alardus (Stoll, 1790) (Papilio) extralim.; STRAY 3898
ssp. a. latia (Evans, 1952) (Astraptes) (stray)
77a0037 T. alector (Felder & Felder, 1867) (Eudamus) extralim.; STRAY [NEW]
ssp. a. hopfferi (Plötz, 1881) (Eudamus) (stray)
gilberti (Freeman, 1969) (Astraptes) *[3899]*
uridon (Dyar, 1912) (Thracides)
77a0038 T. anausis Godman & Salvin, 1896 (Telegonus) extralim.; STRAY [NEW]
NOTE: Zhang et al. (2020) removed *T. anaphus* (and its synonym *Telegonus anaphides* Mabille & Boullet, 1912) from the catalog, and determined that *T. anausis* is the species (as subspecies *annetta*) recorded from NA.
anaphus of authors; (not Cramer, [1777]) (Papilio) misappl. *[3901]*
ssp. a. annetta (Evans, 1952) (Astraptes) (stray)
77a0039 T. cellus (Boisduval & Le Conte, [1837]) (Eudamus) 3902
aereofuscus (Gunder, 1925) (Rhabdoides)
festus (Geyer, 1837) (Cecrops)
leilae (Clark, 1934) (Rhabdoides)
mexicana (Draudt, 1922) (Rhabdoides)

Genus AUTOCHTON Hübner, 1823

Subgenus AUTOCHTON Hübner, 1823
CABARES Godman & Salvin, 1894

77a0040 A. potrillo (Lucas, 1857) (Thanaos) 3916
ssp. a. potrillo (Lucas, 1857) (Thanaos)
paterculus (Herrich-Schäffer, 1863) (Thanaos)

Genus SPATHILEPIA Butler, 1870

77a0041 S. clonius (Cramer, [1775]) (Papilio) 3920

Genus PROTEIDES Hübner, [1819]
DICRANASPIS Mabille, 1878

77a0042 P. mercurius (Fabricius, 1787) (Papilio) STRAY 3868
ssp. a. mercurius (Fabricius, 1787) (Papilio) (stray)
idas (Cramer, [1780]) (Papilio)
ssp. b. sanantonio (Lucas, 1857) (Eudamus) emend.; (stray)

Genus EPARGYREUS Hübner, [1819]
ERIDAMUS Burmeister, 1875

77a0043 E. zestos (Geyer, 1832) (Proteides) 3869
ssp. a. zestos (Geyer, 1832) (Proteides)
arsaces Mabille, 1903 (Epargyreus)
oberon (Worthington, 1881) (Endamus [sic])
77a0044 E. clarus (Cramer, [1775]) (Papilio) 3870
NOTE: Zhang et al. (2020) treated *E. huachuca* as a species distinct from *E. clarus* but considered *californicus* potentially another separate species. Until this is resolved the traditional treatment (with *californicus* as a subspecies) is maintained herein.
ssp. a. clarus (Cramer, [1775]) (Papilio)
argenteola (Matsumura, 1940) (Bibacis [sic])
argentosus Hayward, 1933 (Epargyreus)
obliteratus Scudder, 1889 (Epargyreus)
smythi Williams, 1927 (Epargyreus)
tityrus (Fabricius, 1775) (Papilio)
ssp. b. californicus MacNeill, 1975 (Epargyreus)
californica (Skinner, 1891) (Eudamus) nom. nud.
77a0045 E. huachuca Dixon, 1955 (Epargyreus) [NEW]
NOTE: Zhang et al. (2020) treated this as a species distinct from *E. clarus*. Subsequent communications have temporarily resolved *californicus* as a subspecies of *E. clarus*, and *profugus* as a subspecies of *E. huachuca*.
ssp. a. huachuca Dixon, 1955 (Epargyreus)
ssp. b. profugus Austin, 1998 (Epargyreus)
77a0046 E. cruza Evans, 1952 (Epargyreus) STRAY [NEW]
NOTE: Li et al. (2019) recognized *E. cruza* as a valid species for NA populations previously treated as *E. exadeus*.
exadeus of authors; (not Cramer, [1780]) (Papilio) misappl. *[3871]*

Genus CHIOIDES Lindsey, 1921

77a0047 C. albofasciatus (Hewitson, 1867) (Eudamus) [NEW]
NOTE: Records of *C. catillus* in NA refer to *C. albofasciatus*; *C. catillus* was excluded from the NA fauna by Pelham (2008).
catillus of authors; (not Cramer, [1780]) (Papilio) misid. *[3874]*
77a0048 C. zilpa (Butler, 1872) (Goniurus) STRAY 3875
namba Evans, 1952 (Chioides)

Subtribe LOBOCLINA Grishin, 2019

Genus AGUNA Williams, 1927
TMETOCERUS Poujade, 1896

Aguna metophis group Austin & Mielke, 1998

77a0049 A. metophis (Latreille, [1824]) (Hesperia) STRAY [NEW]

Aguna asander group Austin & Mielke, 1998

77a0050 A. asander (Hewitson, 1867) (Eudamas) STRAY 3876
ssp. a. asander (Hewitson, 1867) (Eudamas) (stray)
euthymides (Mabille & Boullet, 1912) (Epargyreus)
panthius (Herrich-Schäffer, 1869) (Eudamus)
scheba (Plötz, 1881) (Eudamus)

Aguna claxon group Austin & Mielke, 1998

77a0051 A. claxon Evans, 1952 (Aguna) 3877

Genus CODATRACTUS Lindsey, 1921
HETEROPIA Mabille, 1889

Subgenus CODATRACTUS Lindsey, 1921

77a0052 C. arizonensis (Skinner, 1905) (Heteropia) 3885

Subgenus CAUDATRACTUS Grishin, 2019

77a0053 C. alcaeus (Hewitson, 1867) (Eudamus) STRAY 3883
ssp. a. alcaeus (Hewitson, 1867) (Eudamus) (stray)
montezuma (Scudder, 1872) (Thymele)
77a0054E C. melon (Godman & Salvin, 1893) (Heteropia) EXCL. 3884
NOTE: No verified NA records are known; excluded by Pelham (2008).
77a0055E C. carlos Evans, 1952 (Codatractus) EXCL. [NEW]
NOTE: This taxon was reported from NA by Evans (1952), but no verified records are known (Pelham 2008).
77a0056E C. bryaxis (Hewitson, 1867) (Eudamus) EXCL. [NEW]
NOTE: Considered to be extralimital by Pelham (2022).

Genus LOBOTRACTUS Grishin, 2019
ID INFO: Li et al. (2019).

77a0057 L. mysie (Dyar, 1904) (Thorybes) [NEW]
NOTE: Zhang et al. (2021) determined that *L. mysie* is a distinct species and removed *L. valeriana* from the catalog. This confirms the treatment by Burns (1996), and is adopted herein.
valeriana of authors; (not Plötz, 1881) (Eudamus) misappl. *[3915]*

Genus ZESTUSA Lindsey, 1925
PLESTIA Mabille, 1888

77a0058 Z. dorus (Edwards, 1882) (Eudamus) 3882

Subtribe TELEMIADINA Grishin, 2019

Genus ECTOMIS Mabille, 1878

Subgenus ASINA Grishin, 2019

77a0059 E. mexicanus (Freeman, 1969) (Polythrix) STRAY 3879
asine of authors; (not Hewitson, 1867) (Eudamus) misappl.
NOTE: The taxon *Polythrix asine* was reported from NA by Scott (1986) as a synonym of *E. mexicanus*. However, *P. asine* is a valid species that does not occur in NA (Pelham (2008).

Subgenus ECTOMIS Mabille, 1878
BASSLERODEA Bell, 1940
CHRYSOPLECTRUM Watson, 1893
HERONIA Mabille & Boullet, 1912
HYPOCRYPTOTHRIX Watson, 1893

POLYTHRIX Watson, 1893
SPECULUM Austin, 2008

77a0060 E. octomaculata (Sepp, [1844]) (Hesperia) STRAY 3880
alciphron (Godman & Salvin, 1893) (Eudamus)
calenus (Mabille, 1888) (Eudamus)
decurtata (Herrich-Schäffer, 1869) (Eudamus)
decussata (Ménétriés, 1855) (Goniuris [sic])
elegans (Hayward, 1933) (Goniurus)

Genus CEPHISE Evans, 1952 (excl.)

77a0061E C. procerus (Plötz, 1880) (Goniurus) EXCL. 3881
NOTE: Reputed NA material of *C. procerus* was a misidentification of *Ectomis octomaculata* (Pelham 2008).

Genus POLYGONUS Hübner, [1825]
ACOLASTUS Scudder, 1872
NENNIUS Kirby, [1902]

77a0062 P. leo (Gmelin, [1790]) (Papilio) extralim. 3872
ssp. a. arizonensis (Skinner, 1911) (Erycides)
ssp. b. histrio Röber, 1925 (Polygonus)
77a0063 P. savigny (Latreille, [1824]) (Hesperia) [NEW]
ssp. a. savigny (Latreille, [1824]) (Hesperia)
manueli Bell & Comstock, 1948 (Polygonus) *[3873]*
mimeticus Zikán & Zikán, 1968 (Polygonus)

Tribe OILEIDINI Grishin, 2019

Subtribe TYPHEDANINA Grishin, 2019

Genus COGIA Butler, 1870
ANAPERUS Mabille & Boullet, 1919
CAICELLA Hemming, 1934
PHOEDINUS Godman & Salvin, 1894

77a0064 C. undulatus (Hewitson, 1867) (Eudamus) STRAY 3878
elongatus (Plötz, 1881) (Goniurus)
nicasius (Plötz, 1881) (Goniurus)
sumichrasti (Scudder, 1872) (Thymele)
77a0065 C. calchas (Herrich-Schäffer, 1869) (Eudamus) 3921
anacreon (Plötz, 1881) (Eudamus)
terranea (Butler, 1872) (Spathilepia)
77a0066 C. hippalus (Edwards, 1882) (Eudamus) 3922
ssp. a. hippalus (Edwards, 1882) (Eudamus)
gila (Plötz, 1886) (Hesperia)
77a0067 C. outis (Skinner, 1894) (Eudamus) 3923
77a0068 C. caicus (Herrich-Schäffer, 1869) (Eudamus) extralim. 3924
ssp. a. moschus (Edwards, 1882) (Eudamus)
77a0069E C. cajeta (Herrich-Schäffer, 1869) (Eudamus) EXCL. [NEW]
NOTE: Reported from TX as an unsubstantiated record by Stanford (2002); it has not been reported elsewhere and it was excluded from the NA fauna by Pelham (2008).

Genus DYSCOPHELLUS Godman & Salvin, [1893] (excl.)

77a0070E D. euribates (Stoll, in: Cramer, [1782]) (Papilio) EXCL. 3919
NOTE: No verified NA records are known; excluded by Pelham (2008).

Subfamily TAGIADINAE Mabille, 1878

Tribe CELAENORRHININI Swinhoe, 1912

Genus CELAENORRHINUS Hübner, [1819]
ANCISTROCAMPTA Felder & Felder, 1862
PALLAGA Strand, 1911
HARMION Nicéville, 1894
GEHLOTA Doherty, 1889
HANTANA Moore, [1881]
NARGA Mabille, 1891
ORNEATES Godman & Salvin, 1894

77a0071 C. fritzgaertneri (Bailey, 1880) (Pleusioneura [sic]) STRAY 3917
variegatus Godman & Salvin, 1894 (Celaenorrhinus)
77a0072 C. stallingsi Freeman, 1946 (Celaenorrhinus) STRAY 3918

Subfamily PYRRHOPYGINAE Mabille, 1877

Tribe PYRRHOPYGINI Mabille, 1877

Subtribe APYRROTHRIXINA Grishin, 2019

Genus APYRROTHRIX Lindsey, 1921

Subgenus APYRROTHRIX Lindsey, 1921

77a0073 A. araxes (Hewitson, 1867) (Erycides) extralim. 3864
ssp. a. arizonae (Godman & Salvin, 1893) (Pyrrhopyge)

Subfamily PYRGINAE Burmeister, 1878

Tribe ACHLYODINI Burmeister, 1878

Subtribe ACHLYODINA Burmeister, 1878

Genus GRAIS Godman & Salvin, 1894

77a0074 G. stigmaticus (Mabille, 1883) (Anastrus) STRAY 3940
ssp. a. stigmaticus (Mabille, 1883) (Anastrus) (stray)
fumosus (Plötz, 1884) (Antigonus)

Genus EANTIS Boisduval, 1836
TOSTA Evans, 1953

77a0075 E. pallida (Felder, 1869) (Helias) [NEW]
NOTE: Recorded from TX by Warren et al. (2003). Cong et al. (2019) determined this arrangement.
ozotes (Butler, 1870) (Achlyodes)
selva (Evans, 1953) (Achlyodes)
77a0076 E. tamenund (Edwards, 1871) (Hesperia) [NEW]
mithridates of authors; (not Fabricius, 1793) (Hesperia) misappl.
NOTE: Reported from NA under a previous taxonomic arrangement; true *E. mithridates* is restricted to Jamaica (Pelham 2008).
thraso of authors; (not Hübner, [1807]) (Urbanus) misappl. *[3939]*
NOTE: Reports of *E. thraso* from NA are based on a previous taxonomic arrangement; "true" *E. thraso* is restricted to the Neotropics (Pelham 2008).

Genus ACHLYODES Hübner, [1819]
SEBALDIA Mabille, 1903

77a0077 A. busirus (Cramer, [1780]) (Papilio) extralim.; STRAY [NEW]
NOTE: Reported from TX by Reese (2022b). It is treated herein as a stray pending further information.
bucolus Hübner, [1820] (Achlyodes)
obscura (Mabille, 1903) (Sebaldia)
ssp. a. heros Ehrmann, 1909 (Achlyodes)
sebaldus (Fabricius, 1787) (Papilio)

Subtribe PYTHONIDINA Grishin, 2019

Genus QUADRUS Lindsey, 1925

77a0078 Q. lugubris (Felder, 1869) (Leucochitonea) [NEW]
ssp. a. lugubris (Felder, 1869) (Leucochitonea)
obscurascens (Mabille & Boullet, 1917) (Gindanes)
NOTE: Recorded from TX by Reese (2022a).

Tribe CARCHARODINI Verity, 1940

Genus ARTEUROTIA Butler & Druce, 1872

77a0079 A. tractipennis Butler & Druce, 1872 (Arteurotia) STRAY [NEW]
ssp. a. tractipennis Butler & Druce, 1872 (Arteurotia) (stray)
ribbei (Staudinger, 1876) (Helias)

Genus NISONIADES Hübner, [1819]
PELLICIA Plötz, 1879

77a0080 N. bromias (Godman & Salvin, 1894) (Pellicia) STRAY [NEW]
NOTE: Zhang et al. (2020) determined that *N. bromias* is a distinct species and removed *N. rubescens* and its synonyms *triangulus* (Mabille, 1898), *clara* (Mabille & Boullet, 1917), and *nigra* (Mabille & Boullet, 1917) from the NA catalog.

rubescens of authors; (not Möschler, 1877) (Pellicia) misappl. *[3925]*

Genus PELLICIA Herrich-Schäffer, 1870
HEMIPTERIS Mabille, 1889

77a0081 P. arina Evans, 1953 (Pellicia) STRAY 3927
angra of authors; not Evans, 1953 (Pellicia) misid. *[3926]*
NOTE: NA records were a misidentification of *P. arina* (Pelham 2008).
costimacula of authors; not Herrich-Schäffer, 1870 (Pellicia) misappl.
NOTE: NA records of *P. costimacula* refer to *P. arina*, once considered conspecific. "True" *P. costimacula* is restricted to South America (Pelham 2008).

77a0082 P. dimidiata Herrich-Schäffer, 1870 (Pellicia) [NEW]
ssp. a. dimidiata Herrich-Schäffer, 1870 (Pellicia)
bilinea Mabille, 1889 (Pellicia)
bobae (Weeks, 1906) (Pamphila)
corinna Plötz, 1882 (Pellicia)
didia Möschler, 1877 (Pellicia)
hypsipyle Hayward, 1947 (Pellicia)
nivonicus (Plötz, 1884) (Achlyodes)

Genus WINDIA Freeman, 1969

77a0083 W. windi Freeman, 1969 (Windia) [NEW]

Genus NOCTUANA Bell, 1937

77a0084 N. stator (Godman & Salvin, 1899) (Theagenes) [NEW]

Genus CLYTIUS Grishin, 2019

77a0085 C. clytius (Godman & Salvin, 1897) (Pholisora) STRAY 3928
semitincta (Dyar, 1924) (Bolla)

Genus BOLLA Mabille, 1903

77a0086 B. brennus (Godman & Salvin, 1896) (Staphylus) 3929
ssp. a. brennus (Godman & Salvin, 1896) (Staphylus)

Genus PHOLISORA Scudder, 1872

77a0087 P. catullus (Fabricius, 1793) (Hesperia) 3977
77a0088 P. crestar Scott & Davenport, 2017 (Pholisora) [NEW]
NOTE: Zhang et al. (2020) confirmed the suggestion by Pfeiler (2018) that this is a species distinct from *P. catullus*.
77a0089 P. mejicanus (Reakirt, [1867]) (Nisoniades) 3978

Genus STAPHYLUS Godman & Salvin, 1896
ID INFO (partial): Zhang et al. (2022b).
SCANTILLA Godman & Salvin, 1896

77a0090 S. ceos (Edwards, 1882) (Pholisora) 3930
azteca of authors; (not Scudder, 1872) (Pholisora) misid.
NOTE: The sole record of *S. azteca* in NA, reported by Freeman (1977), was a misidentified specimen of *S. ceos* (Opler & Warren 2002).
77a0091 S. ecos Grishin, 2022 (Staphylus) [NEW]
77a0092 S. mazans (Reakirt, [1867]) (Carcharodus) 3931
77a0093E S. ascalaphus (Staudinger, 1875) (Helias) EXCL. [NEW]
NOTE: Reported in error from NA by Barnes & Benjamin (1924).
77a0094 S. hayhurstii (Edwards, 1870) (Hesperia) 3932
77a0095 S. floridus Grishin, 2022 (Staphylus) [NEW]

Genus HESPEROPSIS Dyar, 1905

77a0096 H. libya (Scudder, 1878) (Heteropterus) 3979
ssp. a. joaquina Emmel, Emmel & Mattoon, 1998 (Hesperopsis)
ssp. b. libya (Scudder, 1878) (Heteropterus)
ssp. c. confertiblanca Scott, 1992 (Hesperopsis)
ssp. d. lena (Edwards, 1882) (Ancyloxypha)
77a0097 H. alpheus (Edwards, 1876) (Thanaos) 3980
ssp. a. oricus (Edwards, 1879) (Pholisora)
arizonensis Mabille & Boullet, 1917 (Hesperopsis)
ssp. b. alpheus (Edwards, 1876) (Thanaos)
texana (Scott, 1981) (Pholisora)
NOTE: This name was reduced to synonymy by Pelham (2022) based on conversations with Nick Grishin, and on unpublished data.
77a0098 H. gracielae (MacNeill, 1970) (Pholisora) 3981

Tribe PYRGINI Burmeister, 1878

Genus SYSTASEA Edwards, 1877
LINTNERIA Edwards, 1877
PLESIOCERA Mabille, 1891

77a0099 S. pulverulenta (Felder, 1869) (Leucochitonea) 3937
filipalpis (Mabille, 1891) (Plesiocera)
taeniatus (Plötz, 1884) (Tagiades)
77a0100 S. zampa (Edwards, 1876) (Hesperia) 3938
evansi (Bell, 1941) (Antigonus)

Genus CANESIA Grishin, 2019

77a0101 C. canescens (Felder, 1869) (Leucochitonea) STRAY 3935
ssp. a. canescens (Felder, 1869) (Leucochitonea) (stray)

Genus XENOPHANES Godman & Salvin, 1895

77a0102 X. *ruatanensis Godman & Salvin, 1895 (Xenophanes)* [NEW]
NOTE: Zhang et al. (2022d) recognized the NA taxon *ruatanensis* as distinct from the South American species *X. tryxus*.
perplexus Bell, 1942 (Xenophanes)
trixus; Miller & Brown, 1983 (Xenophanes) missp. *[3936]*
tryxus of authors; (not Stoll, in: Cramer, [1780]) (Papilio) misappl.

Genus ANTIGONUS Hübner, [1819]
CHAETONEURA Felder & Felder, 1862

77a0103 A. emorsa (Felder, 1869) (Leucochitonea) [NEW]
albimedia (Draudt, 1922) (Systasea)
77a0104 A. erosus (Hübner, [1812]) (Urbanus) STRAY [NEW]
westermann (Latreille, [1824]) (Hesperia)

Genus CELOTES Godman & Salvin, 1899

77a0105 C. nessus (Edwards, 1877) (Pholisora) 3975
notabilis (Strecker, [1878]) (Spilothyrus)
radiatus (Plötz, 1884) (Carcharodus)
77a0106 C. limpia Burns, 1974 (Celotes) 3976

Genus PYRGUS Hübner, [1819]
ATELEOMORPHA Warren, 1926
BREMERIA Tutt, 1906
HEMITELEOMORPHA Warren, 1926
SCELOTRIX Rambur, 1858
TELEOMORPHA Warren, 1926
URBANUS Hübner, [1806]

77a0107 P. centaureae (Rambur, [1842]) (Hesperia) extralim. 3962
ssp. a. wyandot (Edwards, 1863) (Hesperia)
ssp. b. dzekh Gorbunov, 2007 (Pyrgus)
NOTE: Added to the NA fauna by Zhang et al. (2021).
ssp. c. freija (Warren, 1924) (Hesperia)
fasciata (Warren, 1926) (Hesperia)
reducta Evans, 1942 (Pyrgus)
ssp. d. loki Evans, 1953 (Pyrgus)
77a0108 P. ruralis (Boisduval, 1852) (Syrichtus) 3963
ssp. a. ruralis (Boisduval, 1852) (Syrichtus)
caespitatis (Boisduval, 1852) (Syrichtus)
petreius (Edwards, 1870) (Syrichtus)
ricara (Edwards, 1865) (Hesperia)
ssp. b. lagunae Scott, 1981 (Pyrgus)
77a0109 P. xanthus Edwards, 1878 (Pyrgus) 3964
macdunnoughi (Oberthür, 1914) (Syrichtus)
77a0110 P. scriptura (Boisduval, 1852) (Syrichtus) 3965
ssp. a. scriptura (Boisduval, 1852) (Syrichtus)
pseudoxanthus Scott, 1986 (Pyrgus)
ssp. b. apertorum Austin, 1998 (Pyrgus)

Genus BURNSIUS Grishin, 2019
NOTE: The species-level arrangement presented by Burns (2000) is accepted here, with modifications by Zhang et al. (2022a, d).

77a0111E B. adepta (Plötz, 1884) (Pyrgus) EXCL. [NEW]
NOTE: Two TX records reported by Stanford (2002) are misidentified as determined by Zhang et al (2022d). This species was placed in *Burnsius* by Zhang et al. (2022a).

77a0112 B. communis (Grote, 1872) (Hesperia) 3966
ssp. a. communis (Grote, 1872) (Hesperia)
albovittata (Grote, 1873) (Hesperia)
occidentalis (Skinner, 1906) (Pyrgus)
skinneri (Gunder, 1927) (Urbanus)
tessellata (Scudder, 1872) (Hesperia)

77a0113 B. albezens Grishin, 2022 (Burnsius) [NEW]
NOTE: This species was described in Zhang et al. (2022a) for NA specimens previously misidentified as *B. albescens*. "True" *albescens* is an extralimital subspecies of *B. communis*.
albescens of authors; (not Plötz, 1884) (Pyrgus) misappl. *[3967]*

77a0114 B. philetas (Edwards, 1881) (Pyrgus) 3969

77a0115 B. oileus (Linnaeus, 1767) (Papilio) 3968
adjutrix (Plötz, 1884) (Pyrgus)
fumosa (Reverdin, 1919) (Hesperia)
montivagus (Reakirt, [1867]) (Pyrgus)
syrichtus (Fabricius, 1775) (Papilio)

Genus HELIOPETES Billberg, 1820
NOTE: Li et al. (2019) treated *Heliopyrgus* and *Leucoscirtes* as subgenera.

Subgenus HELIOPYRGUS Herrera, 1957

77a0116 H. domicella (Erichson, [1849]) (Syrichthus) 3970
ssp. a. domicella (Erichson, [1849]) (Syrichthus)
aconita (Plötz, 1884) (Pyrgus)
nearchus (Edwards, 1882) (Pyrgus)

77a0117 H. sublinea Schaus, 1902 (Heliopetes) STRAY [NEW]

Subgenus LEUCOSCIRTES Scudder, 1872

77a0118 H. ericetorum (Boisduval, 1852) (Syrichtus) 3971
alba (Edwards, 1866) (Syrichtus)

77a0119 H. laviana (Hewitson, 1868) (Leucochitonea) 3972
ssp. a. laviana (Hewitson, 1868) (Leucochitonea)
dividua Röber, 1925 (Heliopetes)
oceanus (Edwards, 1871) (Syrichtus)
pastor (Felder, 1869) (Leucochitonea)

Subgenus HELIOPETES Billberg, 1820

77a0120 H. macaira (Reakirt, [1867]) (Pyrgus) 3973
ssp. a. macaira (Reakirt, [1867]) (Pyrgus)
cnemus Godman & Salvin, 1897 (Heliopetes)
eulalia (Plötz, 1885) (Leucochitonea)
locutia (Hewitson, 1875) (Leucochitonea)
nivea (Scudder, 1872) (Leucoscirtes)

77a0121E H. nivella (Mabille, 1883) (Leucochitonea) EXCL. [NEW]
NOTE: Erroneous NA record by McDunnough (1938); this species is unknown in NA (Pelham 2008).

77a0122 H. arsalte (Linnaeus, 1758) (Papilio) STRAY 3974
crameri Billberg, 1820 (Heliopetes)
figara (Butler, 1870) (Pyrgus)
menalcas (Fabricius, 1775) (Papilio)
niveus (Cramer, [1775]) (Papilio)

77a0123 H. alana (Reakirt, 1868) (Pyrgus) [NEW]
NOTE: Rickard (2017) records this species for NA (TX).
adusta (Plötz, 1885) (Pyrgus)
ligania (Plötz, 1885) (Pyrgus)
romaniana Bryk, 1953 (Heliopetes)

Genus TELEMIADES Hübner, [1819] (excl.)

77a0124E T. antiope (Plötz, 1882) (Proteides) EXCL. [NEW]
NOTE: The sole NA record via BOLD can no longer be located; at the time it was considered to be an accidental unestablished release.

Tribe ERYNNINI Brues & Carpenter, 1932

Subtribe ERYNNINA Brues & Carpenter, 1932

Genus SOSTRATA Godman & Salvin, 1895

77a0125 S. nordica Evans, 1953 (Sostrata) STRAY [NEW]
bifasciata of authors; (not Ménétriés, 1829) (Hesperia) misappl. *[3934]*
NOTE: Previously reported in NA as *S. bifasciata* under a previous taxonomic arrangement; *S. nordica* is widely accepted as the NA species (Pelham 2008).

Genus ECHELATUS Godman & Salvin, 1894

77a0126 E. sempiternus (Butler & Druce, 1872) (Achlyodes) STRAY [NEW]
ssp. a. sempiternus (Butler & Druce, 1872) (Achlyodes) (stray)
varius (Mabille, 1883) (Anastrus)

Genus HOODUS Grishin, 2019

77a0127 H. pelopidas (Fabricius, 1793) (Hesperia) [NEW]
brunnea (Mabille & Boullet, 1917) (Mylon)
ozema (Butler, 1870) (Achlyodes)

Genus GORGYTHION Godman & Salvin, 1896
ESCALOPHOIDES Köhler, 1923

77a0128 G. begga (Prittwitz, 1868) (Goniloba) extralim.; STRAY 3933
ssp. a. pyralina (Möschler, 1877) (Helias) (stray)
marginata Schaus, 1902 (Gorgythion)
vox of authors; not Evans, 1953 (Gorgythion) misid.
NOTE: Reports of this Central American species from TX are misidentifications, and refer to *G. begga pyralina* (Pelham 2008).

Genus CHIOTHION Grishin, 2019

77a0129 C. georgina (Reakirt, 1868) (Pyrgus) [NEW]
asychis of authors; (not Stoll, in: Cramer, [1780]) (Papilio) misappl. *[3942]*
NOTE: Reports of *C. asychis* from NA are based on a previous taxonomic arrangement. *C. georgina* is the NA taxon; *C. asychis* is restricted to South America (Pelham 2008).
ssp. a. georgina (Reakirt, 1868) (Pyrgus)

Genus CHIOMARA Godman & Salvin, 1899

77a0130 C. mithrax (Möschler, 1879) (Achlyodes) [NEW]
gundlachi (Skinner & Ramsden, 1924) (Cycloglypha)
noctula (Plötz, 1884) (Achlyodes)
selma (Kirby, 1879) (Nisoniades)

Genus TIMOCHARES Godman & Salvin, 1896

77a0131 T. ruptifasciata (Plötz, 1884) (Antigonus) 3941
obscurior Draudt, 1923 (Timochares)

Genus EBRIETAS Godman & Salvin, 1896

77a0132 E. anacreon (Staudinger, 1876) (Achlyodes) UNVER. [NEW]
NOTE: A photo record identified as this species by Bordelon & Knudson (2011a) cannot be determined with certainty. It is either *E. anacreon* (most likely) or *E. sappho* Steinhauser, 1974.

Genus EPHYRIADES Hübner, [1819]
BRACHYCORYNE Mabille, 1883
MELANTHES Mabille, 1903

77a0133 E. brunnea (Herrich-Schäffer, 1865) (Nisoniades) extralim. 3944
NOTE: The synonym *electra* was described from Hamilton, ON, but is assumed to be an unestablished introduction, as it refers to the nominate subspecies, which is otherwise not known in NA.
electra (Lintner, 1881) (Eudamus) (excl.)
ssp. a. floridensis Bell & Comstock, 1948 (Ephyriades)

77a0134E E. zephodes (Hübner, [1825]) (Oileides) EXCL. [NEW]
NOTE: The listing of this Central American species for NA by McDunnough (1938) was based on an unestablished accidental introduction (Pelham 2008).

Genus ERYNNIS Schrank, 1801

Subgenus ERYNNIS Schrank, 1801
ASTYCUS Hübner, 1822
HALLIA Tutt, 1906
HESPEROPEGASUS Seven, 2002
THANAOS Boisduval, [1834]
THYMALE Oken, 1815
THYMELE [Fabricius, in: Illiger], 1807

Erynnis icelus group Burns, 1964

77a0135 E. icelus (Scudder & Burgess, 1870) (Nisoniades) 3945
bautista (Plötz, 1884) (Nisoniades)
hamamaelidis (Scudder, 1889) (Nisoniades)

77a0136 E. brizo (Boisduval & Le Conte, [1837]) (Thanaos) 3946
NOTE: Burns (2020) treated *somnus*, *burgessi* and *lacustra* as species distinct from *E. brizo* and that treatment is adopted herein.
77a0137 E. somnus (Lintner, 1881) (Nisoniades) [NEW]
77a0138 E. burgessi (Skinner, 1914) (Thanaos) [NEW]
77a0139 E. lacustra (Wright, 1905) (Nisoniades) [NEW]

Subgenus GESTA Evans, 1953
NOTE: Contrary to Zhang et al. (2019b), we treat *Gesta* as a subgenus of *Erynnis*, rather than as a full genus.

77a0140 E. invisus (Butler & Druce, 1872) (Thanaos) [NEW]
gesta of authors; (not Herrich-Schäffer, 1863) (Thanaos) misappl. *[3943]*
NOTE: Reported from NA under a previous taxonomic arrangement. *E. invisus* is the NA taxon; "true" *E. gesta* does not occur in NA (Austin & Warren 2002).
gorgona (Plötz, 1884) (Achlyodes)
llano (Dodge, 1903) (Nisoniades)

Subgenus ERYNNIDES Burns, 1964
NOTE: Contrary to Zhang et al. (2019b), we treat *Erynnides* and *Gesta* as subgenera of *Erynnis*, rather than treating *Gesta* as a full genus with *Erynnides* as a subgenus of it.

77a0141 E. martialis (Scudder, 1869) (Nisoniades) 3954
ausonius (Lintner, 1872) (Nisoniades)
quercus (Boisduval, [1834]) (Thanaos)
77a0142 E. pacuvius (Lintner, 1878) (Nisoniades) 3955
ssp. a. pacuvius (Lintner, 1878) (Nisoniades)
ssp. b. lilius (Dyar, 1904) (Thanaos)
ssp. c. pernigra (Grinnell, 1905) (Thanaos)
ssp. d. callidus (Grinnell, 1904) (Thanaos)
77a0143 E. juvenalis (Fabricius, 1793) (Hesperia) 3947
ssp. a. juvenalis (Fabricius, 1793) (Hesperia)
costalis (Westwood, [1852]) (Nisoniades)
ennius (Scudder & Burgess, 1870) (Nisoniades)
juvenis (Hübner, [1819]) (Nisoniades)
plautus (Scudder & Burgess, 1870) (Nisoniades)
ssp. b. clitus (Edwards, 1883) (Thanaos)
maestus (Godman, 1899) (Thanaos)
77a0144 E. telemachus Burns, 1960 (Erynnis) 3948
77a0145 E. propertius (Scudder & Burgess, 1870) (Nisoniades) 3949
tibullus (Scudder & Burgess, 1870) (Nisoniades)
77a0146 E. meridianus Bell, 1927 (Erynnis) 3950
ssp. a. meridianus Bell, 1927 (Erynnis)
77a0147 E. horatius (Scudder & Burgess, 1870) (Nisoniades) 3952
petronius (Lintner, 1881) (Nisoniades)
virgilius (Scudder & Burgess, 1870) (Nisoniades)
77a0148 E. tristis (Boisduval, 1852) (Thanaos) 3953
ssp. a. tristis (Boisduval, 1852) (Thanaos)
ssp. b. tatius (Edwards, 1883) (Thanaos)
albomarginatus (Godman, 1899) (Thanaos)
77a0149 E. scudderi (Skinner, 1914) (Thanaos) 3951
77a0150 E. zarucco (Lucas, 1857) (Thanaos) 3956
diogenes (Plötz, 1884) (Antigonus)
naevius (Lintner, 1881) (Nisoniades)
ovidius (Scudder & Burgess, 1870) (Nisoniades)
terentius (Scudder & Burgess, 1870) (Nisoniades)
77a0151 E. funeralis (Scudder & Burgess, 1870) (Nisoniades) 3957
australis (Mabille, 1883) (Nisoniades)
clericalis (Burmeister, 1875) (Phlebodes)
77a0152 E. baptisiae (Forbes, 1936) (Thanaos) 3959
77a0153 E. lucilius (Scudder & Burgess, 1870) (Nisoniades) 3958
77a0154 E. afranius (Lintner, 1878) (Nisoniades) 3960

Erynnis persius group Burns, 1964

77a0155 E. persius (Scudder, 1863) (Nisoniades) 3961
ssp. a. persius (Scudder, 1863) (Nisoniades)
ssp. b. borealis (Cary, 1906) (Thanaos)
ssp. c. avinoffi (Holland, 1930) (Thanaos)
ssp. d. fredericki Freeman, 1943 (Erynnis)
rutilius (Mead, [1876]) (Thanaos)

Subfamily HETEROPTERINAE Aurivillius, [1925] 1879

Tribe HETEROPTERINI Aurivillius, [1925] 1879

Genus CARTEROCEPHALUS Lederer, 1853
AUBERTIA Oberthür, 1896
PAMPHILIDA Lindsey, 1925

77a0156 C. mandan (Edwards, 1863) (Hesperia) [NEW]
NOTE: Zhang et al. (2020) determined that *C. palaemon* is strictly an Old World species, and treated *C. skada* and *C. mandan* as distinct species. *C. palaemon* and its synonyms *brontes* ([Denis & Schiffermüller], 1775) and *paniscus* (Fabricius, 1775) are removed from the catalog.
palaemon of authors; (not Pallas, 1771) (Papilio) misappl. *[3982]*
ssp. a. mesapano (Scudder, 1868) (Hesperia)
ssp. b. mandan (Edwards, 1863) (Hesperia)
77a0157 C. skada (Edwards, 1870) (Cyclopides) [NEW]
NOTE: See note under *C. mandan*.
ssp. a. skada (Edwards, 1870) (Cyclopides)
mackenziei Wyatt, 1965 (Carterocephalus)
ssp. b. magnus Mattoon & Tilden, 1998 (Carterocephalus)

Genus PIRUNA Evans, 1955

77a0158 P. pirus (Edwards, 1878) (Pholisora) 3983
semicaeca (Mabille & Boullet, 1917) (Pholisora)
77a0159 P. haferniki Freeman, 1970 (Piruna) 3986
77a0160 P. polingii (Barnes, 1900) (Pyrgus) 3984
77a0161 P. aea (Dyar, 1912) (Butleria) extralim. [NEW]
cingo Evans, 1955 (Piruna) (excl.)
NOTE: Listed as a valid NA species by Poole & Gentili (1996).
ssp. a. mexicana Freeman, 1979 (Piruna)
77a0162 P. penaea (Dyar, 1918) (Butleria) [NEW]
microsticta of authors; (not Godman, 1900) (Butleria) misid. *[3985]*
NOTE: Reports of *P. microsticta* from TX are misidentifications of *P. penaea* (Opler & Warren 2002).
milpa Freeman, 1970 (Piruna)
77a0163E P. cyclosticta (Dyar, 1920) (Butleria) EXCL. [NEW]
NOTE: Reported as uncertain for NA by Stanford (2002) but subsequently excluded from the NA fauna by Pelham (2008); the record likely refers to *P. pirus*.

Subfamily HESPERIINAE Latreille, 1809

Tribe ERIONOTINI Distant, 1886 (excl.)

Genus ERIONOTA Mabille, 1878 (excl.)

77a0164E E. thrax (Linnaeus, 1767) (Papilio) EXCL. [NEW]
NOTE: This Hawaiian species is included in the catalog by Pelham (2008), and was reported in error for continental NA by Pohl et al. (2016).
ssp. a. thrax (Linnaeus, 1767) (Papilio) (excl.)

Tribe TARACTROCERINI Voss, 1952 (excl.)

Genus POTANTHUS Scudder, 1872 (excl.)

77a0165E P. dara (Kollar, [1844]) (Hesperia) EXCL. [NEW]
NOTE: The synonym *californica* Scudder was described from mislabeled specimens; *P. dara* is restricted to southeast Asia.
californica Scudder, 1872 (Potanthus) (excl.)
77a0166E P. mingo (Edwards, 1866) (Hesperia) EXCL. [NEW]
NOTE: This East Asian species was listed in error for NA by Dyar (1903) and other earlier workers (Pelham 2008).
77a0167E P. omaha (Edwards, 1863) (Hesperia) EXCL. [NEW]
NOTE: This East Asian species was listed in error for NA by Dyar (1903) and others, based on mislabeled specimens (Pelham 2008).

Tribe PERICHARINI Grishin, 2019

Genus PERICHARES Scudder, 1872
ALERA Mabille, 1891

77a0168 P. adela (Hewitson, 1867) (Hesperia) STRAY [NEW]
NOTE: Recognized as a full species in Pelham (2022); it was treated as a subspecies of *P. phyletes* by Pelham (2008).
dolores (Reakirt, 1868) (Goniloba)
marmorata Scudder, 1872 (Perichares)

philetes of authors; (not Gmelin, [1790]) (Papilio) misappl. *[4000]*
NOTE: Reports of *P. philetes* from NA are based on a previous taxonomic arrangement where *P. adela* was considered a subspecies. *Perichares adela* is now recognized as the NA species Burns et al. 2008).

Tribe HESPERIINI Latreille, 1809

Subtribe HESPERIINA Latreille, 1809

Genus EUPHYES Scudder, 1872

Euphyes dion group Shuey, 1989

77a0169 E. pilatka (Edwards, 1867) (Hesperia) 4071
ssp. a. pilatka (Edwards, 1867) (Hesperia)
floridensis (Plötz, 1883) (Hesperia)
ssp. b. klotsi Miller, Harvey & Miller, 1985 (Euphyes)
77a0170 E. conspicua (Edwards, 1863) (Hesperia) 4075
ssp. a. orono (Scudder, 1872) (Hedone)
ssp. b. conspicua (Edwards, 1863) (Hesperia)
pontiac (Edwards, 1863) (Hesperia)
ssp. c. buchholzi (Ehrlich & Gillham, 1951) (Atrytone)
77a0171 E. berryi (Bell, 1941) (Atrytone) 4076
77a0172 E. dion (Edwards, 1879) (Pamphila) 4072
alabamae (Lindsey, 1923) (Atrytone) *[4073]*
macguirei Freeman, 1975 (Euphyes) *[4076.1]*
77a0173 E. bayensis Shuey, 1989 (Euphyes) [NEW]
77a0174 E. dukesi (Lindsey, 1923) (Atrytone) 4074
ssp. a. dukesi (Lindsey, 1923) (Atrytone)
ssp. b. calhouni Shuey, 1996 (Euphyes)

Euphyes vestris group Shuey, 1993

77a0175 E. bimacula (Grote & Robinson, 1867) (Hesperia) 4077
ssp. a. bimacula (Grote & Robinson, 1867) (Hesperia)
acanootus (Scudder, 1868) (Hesperia)
ssp. b. arbogasti Gatrelle, 1999 (Euphyes)
ssp. c. illinois (Dodge, 1872) (Hesperia)
contradicta (Leussler, 1933) (Atrytone)
77a0176 E. arpa (Boisduval & Le Conte, [1837]) (Hesperia) 4070
77a0177 E. vestris (Boisduval, 1852) (Hesperia) [NEW]
ruricola (Boisduval, 1852) (Hesperia) nom. dub. *[4078]*
NOTE: This name is a nomen dubium, see Pelham (2008; Appendix II), but it has been widely used as the valid name for *E. vestris*, including by Miller & Brown (in Hodges et al. 1983), so we list it here for convenience.
ssp. a. harbisoni Brown & McGuire, 1983 (Euphyes)
ssp. b. vestris (Boisduval, 1852) (Hesperia)
californica (Mabille, 1883) (Pamphila)
osceola (Lintner, 1878) (Pamphila)
ssp. c. kiowah (Reakirt, 1866) (Hesperia)
immaculatus (Williams, 1914) (Pamphila)
ssp. d. metacomet (Harris, 1862) (Hesperia)
baeis Scudder, 1889 (Euphyes)
osyka (Edwards, 1867) (Hesperia)
rurea (Edwards, 1862) (Pamphila)

Genus NOTAMBLYSCIRTES Scott, 2006

77a0178 N. simius (Edwards, 1881) (Amblyscirtes) 4089
nigra (Scott, 1981) (Amblyscirtes)
rufa (Scott, 1981) (Amblyscirtes)
77a0179 N. durango Scott, 2017 (Notamblyscirtes) [NEW]
NOTE: Raised from subspecies of *N. simius* by Zhang et al. (2022d).

Genus QUASIMELLANA Burns, 1994

Quasimellana eulogius group Burns, 1994

77a0180 Q. eulogius (Plötz, 1882) (Hesperia) STRAY 4068
heberia (Dyar, 1914) (Atrytone)
mellona (Godman, 1900) (Atrytone)
oaxaca (Freeman, 1979) (Mellana)
77a0181E Q. mexicana (Bell, 1942) (Atrytone) EXCL. 4069
NOTE: Reported from NA by Miller & Brown (1981) and Ferris (1989) but no verified records are known (Pelham 2008).

Genus ANATRYTONE Dyar, 1905
MELLANA Hayward, 1948

Anatrytone logan group Burns, 1994

77a0182 A. logan (Edwards, 1863) (Hesperia) [NEW]
ssp. a. logan (Edwards, 1863) (Hesperia)
delaware (Edwards, 1863) (Hesperia) *[4051]*
ssp. b. lagus (Edwards, 1881) (Pamphila)
77a0183 A. mazai (Freeman, 1969) (Atrytone) [NEW]
77a0184E A. potosiensis (Freeman, 1969) (Atrytone) EXCL. [NEW]
NOTE: Reported from NA by Ferris (1989) and Poole & Gentili (1996), but no vouchers are known, and it was excluded from the NA fauna by Pelham (2008).

Genus ATRYTONE Scudder, 1872

77a0185 A. arogos (Boisduval & Le Conte, [1837]) (Hesperia) 4050
ssp. a. arogos (Boisduval & Le Conte, [1837]) (Hesperia)
mutius (Plötz, 1883) (Hesperia)
ssp. b. iowa (Scudder, 1868) (Hesperia)

Genus PROBLEMA Skinner & Williams, 1924
NOTE: Contrary to Zhang et al. (2019b), we follow Pelham (2022) and retain *Problema* as a distinct genus.

77a0186 P. byssus (Edwards, 1880) (Pamphila) 4052
ssp. a. byssus (Edwards, 1880) (Pamphila)
ssp. b. kumskaka (Scudder, 1887) (Atrytone)
77a0187 P. bulenta (Boisduval & Le Conte, [1837]) (Hesperia) 4053

Genus HYLEPHILA Billberg, 1820
ANDINUS Hayward, 1940
CORDILLANA Hayward, 1941
EUTHYMUS Scudder, 1872

Hylephila phyleus group MacNeill & Herrera, 1999

77a0188 H. phyleus (Drury, 1773) (Papilio) 4013
ssp. a. phyleus (Drury, 1773) (Papilio)
bucephalus (Stephens, 1828) (Pamphila)
druryi (Megerle, [1803]) (Papilio)
eureka Austin & Emmel, 1998 (Hylephila)
hala (Butler, 1870) (Pamphila)
muertovalle Scott, 1981 (Hylephila)
pallida Hayward, 1944 (Hylephila)

Genus POLITES Scudder, 1872
NOTE: Zhang et al. (2019b) extensively revised *Polites*, elevating *Hedone* and *Limochores* to generic status and describing a new subgenus. Previous treatments by MacNeill (in Howe 1975), MacNeill (1993), and Burns (1985, 1994) maintained an inclusive *Polites* with *Hedone* and *Limochores* as subgenera, and the latter practice is adopted herein. Zhang et al. (2021) treated *Wallengrenia* as a subgenus to maintain monophyly.

Subgenus HEDONE Scudder, 1872

77a0189 P. vibex (Geyer, 1832) (Thymelicus) 4045
ssp. a. vibex (Geyer, 1832) (Thymelicus)
brettus (Boisduval & Le Conte, [1837]) (Hesperia)
margarita (Draudt, 1923) (Thymelicus)
morganta (Plötz, 1883) (Hesperia)
unna (Plötz, 1883) (Hesperia)
wingina (Scudder, 1863) (Hesperia)
ssp. b. brettoides (Edwards, 1883) (Pamphila)
77a0190 P. praeceps (Scudder, 1872) (Hedone) [NEW]
NOTE: Raised from subspecies of *P. vibex* by Zhang et al. (2022d).
clara (Plötz, 1883) (Hesperia)
combinata (Plötz, 1883) (Hesperia)
golenia (Möschler, 1879) (Pamphila)
hypozona (Dyar, 1918) (Lerema)
lumida (Möschler, 1879) (Pamphila)
phormio (Mabille, 1878) (Pamphila)
sulfurina (Mabille, 1878) (Pamphila)
zenckei (Plötz, 1883) (Hesperia)
77a0191E P. catilina (Plötz, 1886) (Hesperia) EXCL. [NEW]
NOTE: The type locality of synonym *stigma* was reported as NM and TX, but Zhang et al. (2022d) determined that this was almost certainly based on mislabeled type specimens that originated in South America.
stigma (Skinner, 1896) (Pamphila) (excl.)

Subgenus LIMOCHORES Scudder, 1872
POANOPSIS Godman, 1900
PYRRHOSIDIA Scudder, 1874

77a0192 P. origenes (Fabricius, 1793) (Hesperia) 4042
ssp. a. origenes (Fabricius, 1793) (Hesperia)
manataaqua (Scudder, 1863) (Hesperia)

ssp. b. rhena (Edwards, 1878) (Pamphila)
alcina (Skinner, 1893) (Pamphila)

77a0193 P. sonora (Scudder, 1872) (Ochlodes) 4044
ssp. a. siris (Edwards, 1881) (Pamphila)
ssp. b. sonora (Scudder, 1872) (Ochlodes)
ssp. c. flavaventris Austin, 1998 (Polites)
ssp. d. longinqua Austin, 1998 (Polites)
ssp. e. utahensis (Skinner, 1911) (Pamphila)

77a0194 P. mystic (Edwards, 1863) (Hesperia) 4043
ssp. a. mystic (Edwards, 1863) (Hesperia)
mystic (Scudder, 1863) (Hesperia)
nubs (Scudder, 1889) (Thymelicus)
weetamoo (Scudder, 1889) (Thymelicus)
ssp. b. dacotah (Edwards, 1871) (Hesperia)
pallida (Skinner, 1911) (Pamphila)

Subgenus POLITES Scudder, 1872

77a0195 P. themistocles (Latreille, [1824]) (Hesperia) 4041
ssp. a. themistocles (Latreille, [1824]) (Hesperia)
ahaton (Harris, 1862) (Hesperia)
cernes (Boisduval & Le Conte, [1837]) (Hesperia)
phocion (Fabricius, 1798) (Hesperia)
taumas (Fabricius, 1787) (Papilio)
ssp. b. turneri Freeman, 1944 (Polites)

77a0196 P. coras (Cramer, [1775]) (Papilio) 4036
NOTE: Zhang et al. (2022d) clarified the identity of *P. coras*, and determined that it is a senior synonym of *peckius*.
ssp. a. coras (Cramer, [1775]) (Papilio)
enys (Butler, 1870) (Pamphila)
peckius (Kirby, 1837) (Hesperia)
wamsutta (Harris, 1862) (Hesperia)
ssp. b. surllano Scott, 2006 (Polites)

77a0197 P. sabuleti (Boisduval, 1852) (Hesperia) 4037
ssp. a. sabuleti (Boisduval, 1852) (Hesperia)
ssp. b. channelensis Emmel & Emmel, 1998 (Polites)
ssp. c. aestivalis Emmel, Emmel & Mattoon, 1998 (Polites)
ssp. d. tecumseh (Grinnell, 1903) (Pamphila)
chispa (Wright, 1905) (Pamphila)
ssp. e. albamontana Austin, 1987 (Polites)
ssp. f. genoa (Plötz, 1883) (Hesperia)
ssp. g. alkaliensis Austin, 1987 (Polites)
ssp. h. sinemaculata Austin, 1987 (Polites)
ssp. i. basinensis Austin, 1988 (Polites)
pallida Austin, 1987 (Polites)
ssp. j. nigrescens Austin, 1987 (Polites)
ssp. k. chusca (Edwards, 1873) (Hesperia)
comstocki Gunder, 1925 (Polites)
ssp. l. ministigma Scott, 1981 (Polites)

77a0198 P. mardon (Edwards, 1881) (Pamphila) 4038
ssp. a. mardon (Edwards, 1881) (Pamphila)
ssp. b. klamathensis Mattoon, Emmel & Emmel, 1998 (Polites)

77a0199 P. draco (Edwards, 1871) (Pamphila) 4039

Subgenus COA Grishin, 2019

77a0200 P. baracoa (Lucas, 1857) (Hesperia) 4040
ssp. a. baracoa (Lucas, 1857) (Hesperia)
amadis (Herrich-Schäffer, 1863) (Pamphila)
myus (French, 1885) (Pamphila)

Subgenus YVRETTA Hemming, 1935
CHAEROPHON Godman, 1900

77a0201 P. rhesus (Edwards, 1878) (Pamphila) 4014
ssp. a. rhesus (Edwards, 1878) (Pamphila)
axius (Plötz, 1883) (Hesperia)

77a0202 P. carus (Edwards, 1883) (Pamphila) 4015
subreticulata of authors; (not Plötz, 1883) (Hesperia) misid.
NOTE: Records from TX reported by Freeman (1951) refer to *P. carus* (Pelham 2008).

Subgenus WALLENGRENIA Berg, 1897
CATIA Godman, 1900

77a0203 P. otho (Smith, 1797) (Papilio) 4046
ssp. a. otho (Smith, 1797) (Papilio)
lacordairii (Godman, 1900) (Catia)
pustula (Geyer, 1832) (Thymelicus)
ssp. b. clavus (Erichson, [1849]) (Hesperia)
curassavica (Snellen, 1887) (Hesperia)
helva (Möschler, 1877) (Pamphila)
jobrea (Dyar, 1918) (Catia)
winslowi Weeks, 1906 (Polites)

77a0204 P. egeremet (Scudder, 1863) (Hesperia) 4047
cinna (Plötz, 1882) (Hesperia)
ursa (Worthington, 1880) (Pamphila)

Genus NYCTELIUS Hayward, 1948

77a0205 N. nyctelius (Latreille, [1824]) (Hesperia) STRAY 4123
ssp. a. nyctelius (Latreille, [1824]) (Hesperia) (stray)
aegialea (Plötz, 1882) (Hesperia)
ares (Felder, [1863]) (Hesperia)
coscinia (Herrich-Schäffer, 1865) (Goniloba)

Genus CONGA Evans, 1955

77a0206 C. chydaea (Butler, 1877) (Pamphila) STRAY 4003
actor (Mabille, 1891) (Pamphila)
binaria (Mabille, 1891) (Pamphila)
NOTE: Synonymy by Zhang et al. 2022c).
vala (Mabille, 1891) (Pamphila)
valo (Mabille, 1891) (Pamphila)
zaba (Strand, 1921) (Rhinthon)
NOTE: Revised synonymy by Zhang et al. (2022d).

Genus VERNIA Grishin, 2019

77a0207 V. verna (Edwards, 1862) (Pamphila) 4048
pottawattomie (Worthington, 1880) (Pamphila)
sequoyah (Freeman, 1942) (Polites)
sigida (Mabille, 1891) (Pamphila)
vetulina (Plötz, 1882) (Hesperia)

Genus ATALOPEDES Scudder, 1872
PANSYDIA Scudder, 1872

77a0208 A. campestris (Boisduval, 1852) (Hesperia) 4049
tenebricosus Austin & Emmel, 1998 (Atalopedes)

77a0209 A. huron (Edwards, 1863) (Hesperia) [NEW]
NOTE: Raised from subspecies of *A. campestris* by Zhang et al. (2022d).
amphissa (Plötz, 1883) (Hesperia)
augustus (Plötz, 1883) (Hesperia)
kedema (Butler, 1870) (Pamphila)

Genus HESPERIA Fabricius, 1793
ID INFO (partial): Scott (2021).
ANTHOMASTER Scudder, 1872
DIORTHOSUS Rafinesque, 1815
OCYTES Scudder, 1872
PAMPHILA [Fabricius, in: Illiger], 1807
PHIDIAS Rafinesque, 1815
SYMMACHIA Sodoffsky, 1837
URBICOLA Tutt, 1905

77a0210 H. comma (Linnaeus, 1758) (Papilio) extralim. H 4020
NOTE: ICZN (1983) Opinion 1240 placed this name on the Official List of Specific Names in Zoology as name no. 2838. Populations historically treated as *H. comma* were considered by Layberry et al. (1998) to be three species-level taxa (*comma*, *assiniboia*, and *colorado*), and that treatment is adopted here, although as noted by Opler & Warren (2002), the relationship between *assiniboia* and *colorado* requires more study; these two taxa may be conspecific.
ssp. a. lena Korshunov & Gorbunov, 1995 (Hesperia)

77a0211 H. assiniboia (Lyman, 1892) (Pamphila) [NEW]

77a0212 H. colorado (Scudder, 1874) (Pamphila) [NEW]
ssp. a. laurentina (Lyman, 1892) (Pamphila)
ssp. b. borealis Lindsey, 1942 (Hesperia)
ssp. c. manitoba (Scudder, 1874) (Pamphila)
ssp. d. hulbirti Lindsey, 1939 (Hesperia)
ssp. e. oregonia (Edwards, 1883) (Pamphila)
ssp. f. mattoonorum McGuire, 1998 (Hesperia)
ssp. g. dodgei (Bell, 1927) (Pamphila)
ssp. h. harpalus (Edwards, 1881) (Pamphila)
cabelus (Edwards, 1881) (Pamphila)
greenhornensis Scott, 2021 (Hesperia)
yosemite Leussler, 1933 (Hesperia)
ssp. i. leussleri Lindsey, 1940 (Hesperia)
ssp. j. tildeni Freeman, 1956 (Hesperia)

ssp. k. susanae Miller, 1962 (Hesperia)
ssp. l. mojavensis Austin & McGuire, 1998 (Hesperia)
ssp. m. idaho (Edwards, 1883) (Pamphila)
ssp. n. sublima Warren & Calhoun, 2015 (Hesperia)
ssp. o. colorado (Scudder, 1874) (Pamphila)
oroplata Scott, 1981 (Hesperia)
ssp. p. ochracea Lindsey, 1941 (Hesperia)

77a0213 H. juba (Scudder, 1874) (Pamphila) 4019
ogdenensis (Holland, 1931) (Erynnis)

77a0214 H. lindseyi (Holland, 1930) (Erynnis) 4032
ssp. a. lindseyi (Holland, 1930) (Erynnis)
ssp. b. macneilli Emmel, Emmel & Mattoon, 1998 (Hesperia)
ssp. c. eldorado Emmel, Emmel & Mattoon, 1998 (Hesperia)
ssp. d. septentrionalis Emmel, Emmel & Mattoon, 1998 (Hesperia)
ssp. e. mccorklei Severns & Severns, 2005 (Hesperia)

77a0215 H. miriamae MacNeill, 1959 (Hesperia) 4034
ssp. a. miriamae MacNeill, 1959 (Hesperia)
ssp. b. longaevicola McGuire, 1998 (Hesperia)

77a0216 H. nevada (Scudder, 1874) (Pamphila) 4035
ssp. a. nevada (Scudder, 1874) (Pamphila)
ssp. b. sierra Austin, Emmel, Emmel & Mattoon, 1998 (Hesperia)

77a0217 H. woodgatei (Williams, 1914) (Pamphila) 4021

77a0218 H. uncas Edwards, 1863 (Hesperia) 4018
ssp. a. uncas Edwards, 1863 (Hesperia)
ridingsii Reakirt, 1866 (Hesperia)
ssp. b. tomichi Fisher, 2008 (Hesperia)
ssp. c. lasus (Edwards, 1884) (Pamphila)
ssp. d. grandiosa Austin & McGuire, 1998 (Hesperia)
ssp. e. fulvapalla Austin & McGuire, 1998 (Hesperia)
ssp. f. reeseorum Austin & McGuire, 1998 (Hesperia)
ssp. g. terraclivosa Austin & McGuire, 1998 (Hesperia)
ssp. h. giulianii McGuire, 1998 (Hesperia)
ssp. i. macswaini MacNeill, 1964 (Hesperia)

77a0219 H. leonardus Harris, 1862 (Hesperia) 4023
ssp. a. leonardus Harris, 1862 (Hesperia)
liberia Plötz, 1883 (Hesperia)
lidia Plötz, 1882 (Hesperia)
stallingsi Freeman, 1944 (Hesperia)
ssp. b. pawnee Dodge, 1874 (Hesperia) [4024]
ogallala (Leussler, 1921) (Pamphila)
ssp. c. montana (Skinner, 1911) (Pamphila)

77a0220 H. pahaska Leussler, 1938 (Hesperia) 4025
ssp. a. pahaska Leussler, 1938 (Hesperia)
ssp. b. williamsi Lindsey, 1940 (Hesperia)
ssp. c. martini MacNeill, 1964 (Hesperia)

77a0221 H. columbia (Scudder, 1872) (Pamphila) 4026
california (Wright, 1905) (Pamphila)
erynnioides (Dyar, 1907) (Thymelicus)

77a0222 H. ottoe Edwards, 1866 (Hesperia) 4022

77a0223 H. viridis (Edwards, 1883) (Pamphila) 4028

77a0224 H. metea Scudder, 1863 (Hesperia) 4027
ssp. a. metea Scudder, 1863 (Hesperia)
ssp. b. intermedia Gatrelle, 2003 (Hesperia)
ssp. c. licinus (Edwards, 1871) (Pamphila)
belfragei Freeman, 1944 (Hesperia)
horus (Edwards, 1871) (Pamphila)

77a0225 H. attalus (Edwards, 1871) (Pamphila) 4029
ssp. a. attalus (Edwards, 1871) (Pamphila)
quaiapen (Scudder, 1889) (Erynnis)
seminole (Scudder, 1872) (Ocytes)
ssp. b. nigrescens Gatrelle, 1999 (Hesperia)
ssp. c. slossonae (Skinner, 1890) (Pamphila)

77a0226 H. meskei (Edwards, 1877) (Pamphila) 4030
ssp. a. meskei (Edwards, 1877) (Pamphila)
ssp. b. straton (Edwards, 1881) (Pamphila)
ssp. c. pinocayo Gatrelle & Minno, 2003 (Hesperia)

77a0227 H. dacotae (Skinner, 1911) (Pamphila) 4031

77a0228 H. sassacus Harris, 1862 (Hesperia) 4033
ssp. a. nantahala Gatrelle & Grkovich, 2003 (Hesperia)
ssp. b. sassacus Harris, 1862 (Hesperia)
incerta Scudder, 1863 (Hesperia)
ssp. c. manitoboides (Fletcher, 1889) (Pamphila)

Genus PSEUDOCOPAEODES Skinner & Williams, 1923

77a0229 P. eunus (Edwards, 1881) (Copaeodes) 4016
ssp. a. eunus (Edwards, 1881) (Copaeodes)
wrightii (Edwards, 1882) (Copaeodes)
ssp. b. alinea (Scott, 1981) (Copaeodes)
ssp. c. flavus Austin & Emmel, 1998 (Pseudocopaeodes)
ssp. d. obscurus Austin & Emmel, 1998 (Pseudocopaeodes)

Genus OCHLODES Scudder, 1872

77a0230 O. agricola (Boisduval, 1852) (Hesperia) 4055
ssp. a. agricola (Boisduval, 1852) (Hesperia)
yreka (Edwards, 1866) (Hesperia)
ssp. b. nemorum (Boisduval, 1852) (Hesperia)
milo (Edwards, 1883) (Pamphila)
ssp. c. verus (Edwards, 1881) (Pamphila)

77a0231 O. sylvanoides (Boisduval, 1852) (Hesperia) 4054
ssp. a. sylvanoides (Boisduval, 1852) (Hesperia)
francisca (Plötz, 1883) (Hesperia)
pratincola (Boisduval, 1852) (Hesperia)
ssp. b. santacruza Scott, 1981 (Ochlodes)
ssp. c. catalina Emmel & Emmel, 1998 (Ochlodes)
ssp. d. orecoasta Scott, 1981 (Ochlodes)
ssp. e. bonnevilla Scott, 1981 (Ochlodes)
ssp. f. omnigena Austin, 1998 (Ochlodes)
ssp. g. napa (Edwards, 1865) (Hesperia)
amanda (Plötz, 1883) (Hesperia)

77a0232 O. yuma (Edwards, 1873) (Hesperia) 4057
ssp. a. sacramentorum Austin, 1998 (Ochlodes)
ssp. b. yuma (Edwards, 1873) (Hesperia)
ssp. c. lutea Austin, 1998 (Ochlodes)
ssp. d. scudderi (Skinner, 1899) (Pamphila)
ssp. e. anasazi Cary & Stanford, 1995 (Ochlodes)

77a0233E O. sylvanus (Esper, [1779]) (Papilio) EXCL. [NEW]
NOTE: The record of this Palaearctic species in NA by Holland (1931) is considered an unestablished introduction.

Genus STINGA Evans, 1955

77a0234 S. morrisoni (Edwards, 1878) (Pamphila) 4017

Genus POANES Scudder, 1872
PARATRYTONE Dyar, 1905
PHYCANASSA Scudder, 1872

77a0235 P. aaroni (Skinner, 1890) (Pamphila) 4062
ssp. a. aaroni (Skinner, 1890) (Pamphila)
ssp. b. minimus Gatrelle, 1999 (Poanes)
ssp. c. howardi (Skinner, 1896) (Pamphila)
ssp. d. bordeloni Gatrelle, 2000 (Poanes)

77a0236 P. yehl (Skinner, 1893) (Pamphila) 4063
baiva (Butler, 1870) (Pamphila)

77a0237 P. massasoit (Scudder, 1863) (Hesperia) 4058
ssp. a. massasoit (Scudder, 1863) (Hesperia)
hughi Clark, 1931 (Poanes)
suffusa (Laurent, [1891]) (Pamphila)
ssp. b. chermocki Andersen & Simmons, 1976 (Poanes)

77a0238 P. viator (Edwards, 1865) (Hesperia) 4064
ssp. a. viator (Edwards, 1865) (Hesperia)
ssp. b. zizaniae Shapiro, 1971 (Poanes)

Genus LON Grishin, 2019
ID INFO (partial): Spomer (2021).

77a0239 L. hobomok (Harris, 1862) (Hesperia) 4059
ssp. a. hobomok (Harris, 1862) (Hesperia)
alfaratta (Holland, 1930) (Poanes)
friedlei (Watson, 1920) (Poanes)
pallida (Watson, 1921) (Poanes)
pocahontas (Scudder, 1863) (Hesperia)
quadaquina (Scudder, 1868) (Hesperia)
ridingsii (Chermock & Chermock, 1940) (Poanes)
ssp. b. monofacies (Gatrelle, 2002) (Poanes)
ssp. c. wetona (Scott, 1981) (Poanes)

77a0240 L. zabulon (Boisduval & Le Conte, [1837]) (Hesperia) 4060
erratica (Plötz, 1883) (Hesperia)
ogeechensis (Scudder, 1889) (Atrytone)

77a0241 L. taxiles (Edwards, 1881) (Pamphila) 4061
ssp. a. taxiles (Edwards, 1881) (Pamphila)
psaumis (Godman, 1900) (Phycanassa)
ssp. b. albimaculatus Spomer, 2021 (Lon)
77a0242 L. melane (Edwards, 1869) (Hesperia) 4065
ssp. a. melane (Edwards, 1869) (Hesperia)
ssp. b. vitellina (Herrich-Schäffer, 1869) (Cobalus)
marmarosa (Godman, 1900) (Pamphila)

Genus PARATRYTONE Godman, 1900

77a0243 P. snowi (Edwards, 1877) (Hesperia) 4056

Genus OLIGORIA Scudder, 1872

77a0244 O. maculata (Edwards, 1865) (Hesperia) 4114
deleta (Herrich-Schäffer, 1869) (Cobalus)
grossula (Herrich-Schäffer, 1869) (Cobalus)
norus (Plötz, 1882) (Hesperia)
orthomenes Scudder, 1889 (Oligoria)
77a0245 O. percosius (Godman, 1900) (Cobalus) 4002
NOTE: Moved from the genus *Decinea* by Zhang et al. (2019b).

Genus DECINEA Evans, 1955 (excl.)

77a0246E D. decinea (Hewitson, 1876) (Hesperia) EXCL. [NEW]
NOTE: Subspecies *derisor* was reported from NA as a full species by Poole & Gentili (1996) but no vouchers are known. Subspecies *huasteca* was reported from NA as a full species by Ferris (1989) but no vouchers are known. "True" *D. decinea* is not known to occur north of Mexico (Savela 2022).
ssp. a. derisor (Mabille, 1891) (Pamphila) (excl.)
ssp. b. huasteca (Freeman, 1969) (Tirynthia) (excl.)

Genus ATRYTONOPSIS Godman, 1900

77a0247 A. hianna (Scudder, 1868) (Hesperia) 4080
ssp. a. hianna (Scudder, 1868) (Hesperia)
grotei (Plötz, 1882) (Hesperia)
ssp. b. turneri Freeman, 1948 (Atrytonopsis)
77a0248 A. quinteri Burns, 2015 (Atrytonopsis) [NEW]
77a0249 A. loammi (Whitney, 1876) (Lerema) 4084
apostologica (Strand, 1921) (Parnara)
regulus (Edwards, 1881) (Pamphila)
77a0250 A. deva (Edwards, 1877) (Hesperia) 4081
77a0251 A. lunus (Edwards, 1884) (Pamphila) 4082
77a0252 A. vierecki (Skinner, 1902) (Pamphila) 4083
77a0253 A. pittacus (Edwards, 1882) (Pamphila) 4085
77a0254 A. python (Edwards, 1882) (Pamphila) 4086
77a0255 A. margarita (Skinner, 1913) (Pamphila) [NEW]
NOTE: Raised to full species status by Burns (2015).
77a0256 A. cestus (Edwards, 1884) (Pamphila) 4087
77a0257 A. edwardsi Barnes & McDunnough, 1916 (Atrytonopsis) [NEW]
ovinia of authors; (not Hewitson, 1866) (Hesperia) misappl. *[4088]*
NOTE: Reported from NA under a previous taxonomic concept, by Burns (1983); *A. edwardsi* is the NA taxon (Pelham 2008).
polingi Gunder, 1925 (Atrytonopsis)

Genus THESPIEUS Godman, 1900

77a0258 T. macareus (Herrich-Schäffer, 1869) (Goniloba) STRAY 4124
cacajo Dyar, 1913 (Thespieus)
emacareus (Plötz, 1882) (Hesperia)

Subtribe MONCINA Warren, 2008

Genus NICONIADES Hübner, 1821
GONILOBA Westwood, 1852

77a0259 N. nikko Hayward, 1948 (Niconiades) [NEW]
NOTE: Rickard (2017) records this species for TX.

Genus RHINTHON Godman, 1900

77a0260 R. osca (Plötz, 1882) (Hesperia) 4001
biserta (Schaus, 1902) (Thracides)
cabella (Plötz, 1886) (Hesperia)
chiriquensis (Mabille, 1889) (Proteides)
cubana of authors; (not Herrich-Schäffer, 1865) (Goniloba) misappl.
NOTE: Reported from NA by Poole & Gentili (1996) under a previous taxonomic concept; "true" *R. cubana* is restricted to the Caribbean (Pelham 2008).

Genus AMBLYSCIRTES Scudder, 1872

Subgenus STOMYLES Scudder, 1872
EPIPHYES Dyar, 1905

77a0261 A. carolina (Skinner, 1892) (Pamphila) 4100
77a0262 A. reversa Jones, 1926 (Amblyscirtes) 4101
77a0263 A. hegon (Scudder, 1863) (Hesperia) 4096
argina (Plötz, 1884) (Pyrgus)
nemoris (Edwards, 1864) (Hesperia)
samoset (Scudder, 1863) (Hesperia)
77a0264 A. aesculapius (Fabricius, 1793) (Hesperia) 4099
oneko (Scudder, 1863) (Hesperia)
textor (Hübner, [1831]) (Pyrgus)
wakulla (Edwards, 1869) (Hesperia)

Subgenus AMBLYSCIRTES Scudder, 1872

77a0265 A. nysa Edwards, 1877 (Amblyscirtes) 4103
similis (Strecker, [1878]) (Pamphila)
77a0266 A. alternata (Grote & Robinson, 1867) (Hesperia) 4108
asella (Herrich-Schäffer, 1869) (Cobalus)
NOTE: Revised synonymy by Zhang et al. (2022c).
77a0267 A. vialis (Edwards, 1862) (Hesperia) 4105
77a0268 A. aenus Edwards, 1878 (Amblyscirtes) 4092
ssp. a. erna Freeman, 1943 (Amblyscirtes) [4095]
ssp. b. aenus Edwards, 1878 (Amblyscirtes)
ssp. c. megamacula Scott, 1998 (Amblyscirtes)
77a0269E A. fluonia Godman, 1900 (Amblyscirtes) EXCL. [NEW]
NOTE: A report of this species from TX (Stanford 2002) is unsubstantiated, and likely refers to *S. aenus erna* (Pelham 2008).
77a0270 A. linda Freeman, 1943 (Amblyscirtes) 4093
meridionalis Dyar, 1905 (Amblyscirtes)
77a0271 A. cassus Edwards, 1883 (Amblyscirtes) 4091
77a0272 A. texanae Bell, 1927 (Amblyscirtes) 4097
77a0273 A. tolteca Scudder, 1872 (Amblyscirtes) extralim. [NEW]
ssp. a. prenda Evans, 1955 (Amblyscirtes) [4098]
77a0274 A. celia Skinner, 1895 (Amblyscirtes) 4106
77a0275 A. belli Freeman, 1941 (Amblyscirtes) 4107
77a0276 A. nereus (Edwards, 1876) (Hesperia) 4102
77a0277 A. eos (Edwards, 1871) (Hesperia) 4104
comus (Edwards, 1876) (Hesperia)
nilus Edwards, 1878 (Amblyscirtes)
quinquemacula (Skinner, 1911) (Pamphila)

Subgenus AMBLYTERIA Grishin, 2019

77a0278 A. oslari (Skinner, 1899) (Pamphila) 4094
77a0279 A. arizonae Freeman, 1993 (Amblyscirtes) [NEW]
NOTE: Zhang et al. (2020) determined that *A. elissa* is a distinct extralimital species. *A. arizonae* is the NA species.
elissa of authors; not Godman, 1900 (Amblyscirtes) misappl.
77a0280 A. exoteria (Herrich-Schäffer, 1869) (Goniloba) 4090
marcus (Strand, 1909) (Chapra)
nanno Edwards, 1882 (Amblyscirtes)
77a0281 A. phylace (Edwards, 1878) (Pamphila) 4109

Subgenus MASTOR Godman, 1900

77a0282 A. fimbriata (Plötz, 1882) (Hesperia) 4110
ssp. a. fimbriata (Plötz, 1882) (Hesperia)
bellus (Edwards, 1884) (Pamphila)

Genus REPENS Evans, 1955 (excl.)

77a0283E R. florus (Godman, 1900) (Stomyles) EXCL. [NEW]
NOTE: A single unverified record from TX was reported by Stanford (2002); that record was excluded from the NA list by Pelham (2008) and was considered "dubious" for TX by Knudson & Bordelon (2018).

Genus NASTRA Evans, 1955

Subgenus NASTRA Evans, 1955

77a0284 N. lherminier (Latreille, [1824]) (Hesperia) 3993
pherminieri; [Pohl], 2016 (Nastra) missp.
NOTE: Pohl (in Pohl et al. 2016, 2018) confused this name with *Pieris lherminieri* Godart (now a synonym of *Anthocharis midea* in the Pieridae). Pohl misspelled it as "*pherminieri*" and mistakenly treated it as an emendation of *N. lherminier* (Latreille).

77a0285 N. fusca (Grote & Robinson, 1867) (Hesperia) [NEW]
NOTE: Recognized by Zhang et al. (2022d) as a senior synonym of *N. neamathla*; it was previously treated as a synonym of *N. lherminieri*.
neamathla (Skinner & Williams, 1923) (Lerodea) [3995]

77a0286 N. julia (Freeman, 1945) (Lerodea) 3994
hoffmanni (Bell, 1947) (Lerodea)

Subgenus RAYIA Grishin, 2022
NOTE: Subgenus erected by Zhang et al. (2022d).

77a0287 N. perigenes (Godman, 1900) (Mastor) 3991
NOTE: Transferred from *Vidius* by Zhang et al. (2019b).

Genus LERODEA Scudder, 1872

77a0288 L. eufala (Edwards, 1869) (Hesperia) 4111
ssp. a. eufala (Edwards, 1869) (Hesperia)
dispersa (Herrich-Schäffer, 1869) (Goniloba)
floridae (Mabille, 1876) (Pamphila)
micylla (Burmeister, 1878) (Carystus)
obscura Lindsey, Bell & Williams, 1931 (Lerodea)

77a0289 L. arabus (Edwards, 1882) (Pamphila) 4112
dysaules Godman, 1900 (Lerodea) [4113]

Genus MONCA Evans, 1955

77a0290 M. crispinus (Plötz, 1882) (Hesperia) [NEW]
telata of authors; (not Herrich-Schäffer, 1869) (Megistias) misappl.
NOTE: Reported from NA based on a previous taxonomic concept; "true" *M. telata* does not occur here (Pelham 2008).
tyrtaeus (Plötz, 1882) (Hesperia) [3992]

Genus TROYUS Warren & Turland, 2012

77a0291 T. fantasos (Cramer, [1780]) (Papilio) STRAY [NEW]
NOTE: Moved from *Vettius* by Zhang et al. (2019b).
abebalus (Stoll, in: Cramer, [1781]) (Papilio)
eucherus (Plötz, 1882) (Hesperia)

Genus CYMAENES Scudder, 1872
MEGISTIAS Godman, 1900

77a0292 C. tripunctus (Herrich-Schäffer, 1865) (Cobalus) 3996
ssp. a. tripunctus (Herrich-Schäffer, 1865) (Cobalus)
jamaca (Schaus, 1902) (Megistias)
sinepunctis (Avinoff & Shoumatoff, 1946) (Lerodea)
ssp. b. theogenis (Capronnier, 1874) (Carystus) (excl.)
NOTE: The subspecies *theogenis* was reported in error by Evans (1953), presumably based on mislabeled specimens (Pelham 2008).

77a0293 C. isus (Godman, [1900]) (Megistias) [NEW]
NOTE: Several different names have been applied to the *Cymaenes* species that occurs in southern TX, including *edata*, *lumina*, *odilia*, and *trebius* (the latter two currently synonyms of *C. lumina*. Zhang et al. (2022d) determined that the correct name for the southern TX species is *C. isus*.
edata of authors; (not Plötz, 1883) (Hesperia) misappl.
lumina of authors; (not Herrich Schäffer, 1869) (Cobalus) misappl.
odilia of authors; (not Burmeister, 1878) (Carystus) misappl. [3997]
trebius of authors; (not Mabille, 1891) (Pamphila) misappl.

Genus REMELLA Hemming, 1939 (excl.)

77a0294E R. remus (Fabricius, 1798) (Hesperia) EXCL. [NEW]
NOTE: An unsubstantiated record was reported from TX by Stanford (2002). It was excluded from the list by Pelham (2008) and was considered "dubious" for TX by Knudson & Bordelon (2018).

Genus LEREMA Scudder, 1872
SAREGA Mabille, 1904

77a0295 L. accius (Smith, 1797) (Papilio) 3998
chamis Scudder, 1889 (Lerema)
curtius Scudder, 1889 (Lerema)
monoco (Scudder, 1863) (Hesperia)
nortonii (Edwards, 1867) (Hesperia)
parumpunctata (Herrich-Schäffer, 1869) (Goniloba)
pattenii Scudder, 1872 (Lerema)
punctella (Grote & Robinson, 1867) (Hesperia)

77a0296 L. liris Evans, 1955 (Lerema) 3999
ancillaris of authors; (not Butler, 1877) (Pamphila) misappl.
NOTE: The taxon *liris* was previously treated as a subspecies of *L. ancillaris*, but is now recognized as a full species; "true" *L. ancillaris* is restricted to the Neotropics (Miller & Brown 1981).

Genus PAPIAS Godman, 1900
MNASILUS Godman, 1900
NOTE: Synonymy by Zhang et al. (2022c).

77a0297 P. allubita (Butler, 1877) (Pamphila) [NEW]
NOTE: Recorded from TX by Reid & Warren (2009).
evanidus (Mabille, 1883) (Cobalus)
norma (Dyar, 1917) (Vehelius)
penicillatus (Godman, [1900]) (Mnasilus)
umbrosus (Mabille, 1883) (Cobalus)
zalma (Plötz, 1886) (Cobalus)

Genus CALLIMORMUS Scudder, 1872

77a0298 C. saturnus (Herrich-Schäffer, 1869) (Cobalus) 3990
NOTE: Recorded from TX in the 2018 Season Summary of the Lepidopterists' Society (2019), confirming an earlier report by Evans (1952).
ssp. a. tenera (Plötz, 1884) (Apaustus)

Genus EUTYCHIDE Godman & Salvin, [1900] (excl.)
NOTE: Placed in *Moncina* following Warren et al. (2009); exact placement within the subtribe could not be determined.

77a0299E E. complana (Herrich-Schäffer, 1869) (Goniloba) EXCL. [NEW]
NOTE: A specimen from TX is presumed to be mislabeled; this species was excluded from the NA fauna by Pelham (2008).

ubtribe ANTHOPTINA Warren, 2009

Genus CORTICEA Evans, 1955

77a0300 C. corticea (Plötz, 1882) (Hesperia) STRAY 3989

Genus ASBOLIS Mabille, 1904

77a0301 A. capucinus (Lucas, 1857) (Eudamus) 4079
palaea (Hewitson, 1868) (Hesperia)
sandarac (Herrich-Schäffer, 1865) (Goniloba)

Genus CHORANTHUS Scudder, 1872 (excl.)

77a0302E C. radians (Lucas, 1857) (Hesperia) EXCL. 4066
NOTE: No verified records are known from NA (Pelham 2008).

77a0303E C. haitensis Skinner, 1920 (Choranthus) EXCL. 4067
NOTE: No verified records are known from NA (Pelham 2008).

77a0304E C. vitellius (Fabricius, 1793) (Hesperia) EXCL. [NEW]
NOTE: A single female specimen from FL, reported by Evans (1955) (and presumably the basis for inclusion of the species in Poole & Gentili (1996)) is thought to be mislabeled (Pelham 2008).

Genus PYRRHOCALLES Mabille, 1904 (excl.)
NOTE: Placed in Anthoptina following Warren et al. (2009); exact placement within the subtribe could not be determined.

77a0305E P. antiqua (Herrich-Schäffer, 1863) (Pamphila) EXCL. [NEW]
NOTE: This Caribbean species was listed from NA by Barnes & Benjamin (1926) and by McDunnough (1938) but no verified records are known.

77a0306E P. jamaicensis (Schaus, 1902) (Phemiades) EXCL. [NEW]
NOTE: The report of this species from "south Arizona" by dos Passos (1964) is based on a specimen that is almost certainly mislabeled (Pelham 2008); the species is otherwise restricted to the Caribbean.

Subtribe FALGINA Grishin, 2019

Genus SYNAPTE Mabille, 1904
GODMANIA Skinner & Ramsden, 1924

77a0307 S. pecta Evans, 1955 (Synapte) [NEW]
malitiosa of authors; (not Herrich-Schäffer, 1865) (Goniloba) misappl. [3987]
NOTE: Reported from NA under a previous taxonomic arrangement. "True" *S. malitiosa* is restricted to the Caribbean.

77a0308 S. salenus (Mabille, 1883) (Carystus) 3988

77a0309 S. shiva Evans, 1955 (Synapte) [NEW]

77a0310 S. syraces (Godman, 1901) (Cymaenes)
UNVER.; STRAY [NEW]
NOTE: This species has been reported from AZ, but it is uncertain whether they are *S. shiva* or *S. syraces*. This species was listed by Poole & Gentili (1996).

Subtribe THYMELICINA Tutt, 1905

Genus THYMELICUS Hübner, [1819]
ADOPOEA Billberg, 1820
DORICHA Moore, 1883
PELION Kirby, 1858

77a0311 T. lineola (Ochsenheimer, 1808) (Papilio) I 4012
NOTE: Introduced from Europe, first found in NA in ON in 1910, and in BC in 1960.
ssp. a. lineola (Ochsenheimer, 1808) (Papilio)
kirbyi (Reed, 1877) (Pamphila)
ludovicae (Mabille, 1883) (Pamphila)
pallida Tutt, 1896 (Thymelicus)
virgula (Hübner, [1813]) (Papilio)

Genus OARISMA Scudder, 1872
NOTE: Zhang et al. (2019b) determined that *Copaeodes* and *Oarisma* are congeneric. However, we adopt the approach of Pelham (2022), preserving these two genera and placing *edwardsii* in *Copaeodes* to resolve monophyly.
PARADOPAEA Godman, 1900

77a0312 O. poweshiek (Parker, 1870) (Hesperia) emend. 4006
powesheik; (Parker, 1870) (Hesperia) orig. missp.
77a0313 O. garita (Reakirt, 1866) (Hesperia) 4007
ssp. a. garita (Reakirt, 1866) (Hesperia)
hylax (Edwards, 1871) (Thymeticus [sic])

Genus COPAEODES Speyer, 1877
NOTE: See note under *Oarisma*.

77a0314 C. edwardsii (Barnes, 1897) (Thymelicus) 4008
77a0315 C. aurantiaca (Hewitson, 1868) (Ancyloxipha [sic]) 4009
candida Wright, 1890 (Copaeodes)
macra (Plötz, 1884) (Thymelicus)
procris (Edwards, 1871) (Heteropterus)
simplex (Felder, 1869) (Ancyloxypha)
waco (Edwards, 1868) (Hesperia)
77a0316 C. minima (Edwards, 1870) (Hesperia) 4010
rayata Barnes & McDunnough, 1913 (Copaeodes)
singularis (Plötz, 1884) (Thymelicus)

Subtribe CALPODINA Clark, 1948

Genus PANOQUINA Hemming, 1934
PRENES Scudder, 1872

77a0317 P. evansi (Freeman, 1946) (Calpodes) STRAY 4122
fusina of authors; (not Hewitson, 1868) (Hesperia) misappl.
NOTE: Scott (1986) used this name as the NA taxon under an alternative taxonomic concept. "True" *P. fusina* does not occur in NA (Pelham 2008).
77a0318 P. panoquin (Scudder, 1863) (Hesperia) 4116
cochles (Scudder, 1889) (Prenes)
ophis (Edwards, 1871) (Hesperia)
wimico (Plötz, 1882) (Hesperia)
77a0319 P. panoquinoides (Skinner, 1891) (Pamphila) 4117
ssp. a. panoquinoides (Skinner, 1891) (Pamphila)
77a0320 P. errans (Skinner, 1892) (Pamphila) 4118
77a0321 P. hecebolus (Scudder, 1872) (Prenes) STRAY 4120
ortygia (Möschler, 1883) (Pamphila)
NOTE: Moved from synonym of *P. ocola ocola*, by Zhang et al. (2022d).
parilis (Mabille, 1891) (Pamphila)
77a0322 P. ocola (Edwards, 1863) (Hesperia) 4119
ssp. a. ocola (Edwards, 1863) (Hesperia)
heterospila (Mabille, 1878) (Pamphila)
stratyllis (Burmeister, 1878) (Pamphila)
77a0323 P. lucas (Fabricius, 1793) (Hesperia) STRAY [NEW]
sylvicola (Herrich-Schäffer, 1865) (Goniloba) [4121]
woodruffi Watson, 1937 (Panoquina)
77a0324E P. nero (Fabricius, 1798) (Hesperia) EXCL. [NEW]
NOTE: Erroneous NA (FL) record by Skinner (1902) based on a misidentification of some other Panoquina species (Pelham 2008). "True" *P. nero* is restricted to the West Indies.

Genus CALPODES Hübner, [1819]
SALIANA Evans, 1955

77a0325 C. ethlius (Stoll, in: Cramer, [1782]) (Papilio) 4115
chemnis (Fabricius, 1793) (Hesperia)
olynthus (Boisduval & Le Conte, [1837]) (Eudamus)
77a0326 C. esperi (Evans, 1955) (Saliana) [NEW]
NOTE: Reported from TX in the 2016 Season Summary of the Lepidopterists' Society (2017).
ssp. a. esperi (Evans, 1955) (Saliana)
telegonus (Esper, 1780) (Papilio)

Subtribe APAUSTINA Grishin, 2019

Genus ANCYLOXYPHA Felder, [1863]

77a0327 A. numitor (Fabricius, 1793) (Hesperia) 4004
bion (Fabricius, 1798) (Hesperia)
longleyi French, 1897 (Ancyloxypha)
marginatus (Harris, 1862) (Heteropterus)
puer (Hübner, 1823) (Thymelicus)
77a0328 A. arene (Edwards, 1871) (Heteropterus) 4005
euphrasia (Plötz, 1884) (Apaustus)
isidorus (Plötz, 1884) (Thymelicus)
leporina (Plötz, 1884) (Apaustus)
myrtis (Edwards, 1882) (Copaeodes)

Genus ADOPAEOIDES Godman, 1900
NEADOPAEA Hayward, 1941

77a0329 A. prittwitzi (Plötz, 1884) (Apaustus) 4011

Tribe MEGATHYMINI Comstock & Comstock, 1895

Genus AGATHYMUS Freeman, 1959

77a0330 A. baueri (Stallings & Turner, 1954) (Megathymus) 4133
ssp. a. baueri (Stallings & Turner, 1954) (Megathymus)
ssp. b. freemani Stallings & Turner, 1960 (Agathymus) [4134]
77a0331 A. gentryi Roever, 1998 (Agathymus) [NEW]
77a0332 A. aryxna (Dyar, 1905) (Megathymus) 4132
77a0333 A. evansi (Freeman, 1950) (Megathymus) 4135
77a0334 A. neumoegeni (Edwards, 1882) (Megathymus) 4125
ssp. a. neumoegeni (Edwards, 1882) (Megathymus)
ssp. b. judithae (Stallings & Turner, 1957) (Megathymus) [4128]
ssp. c. diabloensis Freeman, 1962 (Agathymus) [4129]
ssp. d. carlsbadensis (Stallings & Turner, 1957) (Megathymus) [4126]
ssp. e. florenceae (Stallings & Turner, 1957) (Megathymus) [4127]
ssp. f. mcalpinei (Freeman, 1955) (Megathymus) [4130]
77a0335 A. polingi (Skinner, 1905) (Megathymus) 4143
drucei (Skinner, 1911) (Megathymus)
77a0336 A. chisosensis (Freeman, 1952) (Megathymus) 4131
NOTE: Recognized as a species following Freeman (1969) and Ferris (1989).
77a0337 A. alliae (Stallings & Turner, 1957) (Megathymus) 4144
ssp. a. alliae (Stallings & Turner, 1957) (Megathymus)
ssp. b. paiute Roever, 1998 (Agathymus)
77a0338 A. stephensi (Skinner, 1912) (Megathymus) 4142
77a0339 A. mariae (Barnes & Benjamin, 1924) (Megathymus) 4136
ssp. a. mariae (Barnes & Benjamin, 1924) (Megathymus)
ssp. b. chinatiensis Freeman, 1964 (Agathymus) [4137]
ssp. c. lajitaensis Freeman, 1964 (Agathymus) [4138]
ssp. d. rindgei Freeman, 1964 (Agathymus) [4139]
77a0340 A. gilberti Freeman, 1964 (Agathymus) 4140
77a0341 A. estelleae (Stallings & Turner, 1958) (Megathymus) extralim. [NEW]
remingtoni of authors; (not Stallings & Turner, [1958]) (Megathymus) misappl.
NOTE: Scott (1986) considered *M. remingtoni* to be the valid NA species name, based on a previous taxonomic arrangement. As currently recognized, *M. remingtoni* does not occur in NA (Pelham 2008).
ssp. a. valverdiensis Freeman, 1966 (Agathymus) [4141]

Genus MEGATHYMUS Scudder, 1872

77a0342 M. yuccae (Boisduval & Le Conte, [1837]) (Eudamus) 4145
ssp. a. yuccae (Boisduval & Le Conte, [1837]) (Eudamus)
alabamae Freeman, 1943 (Megathymus)
buchholzi Freeman, 1952 (Megathymus)
ssp. b. reinthali Freeman, 1963 (Megathymus)
kendalli Freeman, 1965 (Megathymus)
ssp. c. wilsonorum Stallings & Turner, 1958 (Megathymus)
ssp. d. louiseae Freeman, 1963 (Megathymus)
ssp. e. coloradensis Riley, 1877 (Megathymus) [4146]
dee Freeman, 1943 (Megathymus)
elidaensis Stallings, Turner & Stallings, 1966 (Megathymus)
stallingsi Freeman, 1943 (Megathymus)
winkensis Freeman, 1965 (Megathymus)
ssp. f. reubeni Stallings, Turner & Stallings, 1963 (Megathymus)
ssp. g. navajo Skinner, 1911 (Megathymus)
albasuffusa Wielgus & Wielgus, 1974 (Megathymus)
arizonae Tinkham, 1954 (Megathymus)
browni Stallings & Turner, 1960 (Megathymus)
ssp. h. martini Stallings & Turner, 1956 (Megathymus)
maudae Stallings, Turner & Stallings, 1966 (Megathymus)
ssp. i. harbisoni Emmel & Emmel, 1998 (Megathymus)

77a0343 M. ursus Poling, 1902 (Megathymus) 4151
ssp. a. ursus Poling, 1902 (Megathymus)
ssp. b. deserti Wielgus, Wielgus & Wielgus, 1972 (Megathymus)

77a0344 M. violae Stallings & Turner, 1956 (Megathymus) [NEW]
NOTE: Zhang et al. (2020) determined that *M. violae* is a species distinct from *M. ursus*.

77a0345 M. cofaqui (Strecker, 1876) (Aegiale) 4147
ssp. a. cofaqui (Strecker, 1876) (Aegiale)
harrisi Freeman, 1955 (Megathymus) *[4148]*
ssp. b. slotteni Gatrelle, 1999 (Megathymus)

77a0346 M. streckeri (Skinner, 1895) (Aegiale) 4149
ssp. a. streckeri (Skinner, 1895) (Aegiale)
ssp. b. texana Barnes & McDunnough, 1912 (Megathymus) [4150]
albocincta Holland, 1930 (Megathymus)
ssp. c. leussleri Holland, 1931 (Megathymus)

Genus STALLINGSIA Freeman, 1959

77a0347 S. maculosus (Freeman, 1955) (Megathymus) 4152
smithi of authors; (not Druce, 1896) (Megathymus) misappl.
NOTE: Historical NA records under the name *S. smithi* are based on a previous taxonomic arrangement; "true" *S. smithi* does not occur north of Mexico (Pelham 2008).

71. Family PAPILIONIDAE Latreille, [1802] (apollos and swallowtails)

by Jonathan P. Pelham & Gregory R. Pohl

Papilionids are large butterflies with hairless eyes, short antennae, and three fully developed pairs of legs. Wingspans of NA species range from about 40 to 110 mm. Many are boldly colored in patterns of black, white, and yellow. Larvae of papilionids eat a variety of food plants. Some species sequester toxic plant compounds and have aposematic warning colors.

The general view emerging from recent phylogenetics research (Heikkilä et al. 2012; Espeland 2018; Breinhold et al. 2017) is that Papilionidae is sister to all other butterflies, but they are retained in the current position following the traditional sequence of families in NA works.

The family Papilionidae contains about 570 species worldwide, including 42 species in the Nearctic region. The Papilionidae were included in the Nearctic butterfly catalog published online recently by Pelham (2022), and the classification in the current work is almost identical.

Subfamily PARNASSIINAE Duponchel, [1835]

Tribe PARNASSIINI Duponchel, [1835]

Genus PARNASSIUS Latreille, 1804

ADORITIS Koçak, 1989
DORITIS [Fabricius, in: Illiger], 1807
DRIOPA Korshunov, 1988
ERYTHRODRIOPA Korshunov, 1988
EUKORAMIUS Bryk, 1935
EVERSMANNIODRIOPA Korb, 2005
KAILASIUS Moore, 1902
KORAMIUS Moore, 1902
KREIZBERGIUS Korshunov, 1990
LINGAMIUS Bryk, 1935
PARNASSIS Hübner, [1819]
QUINHAICUS Korshunov, 1990
SACHAIA Korshunov, 1988
TADUMIA Moore, 1902
THERIUS Billberg, 1820

77a0348 P. eversmanni [Ménétriés, 1850] (Parnassius) extralim. H 4153
ssp. a. thor Edwards, 1881 (Parnassius)
kohlsaati Gunder, 1932 (Parnassius)
meridionalis Eisner, 1978 (Parnassius)
pinkensis Gauthier, 1984 (Parnassius)

77a0349 P. clodius Ménétriés, 1857 (Parnassius) 4154
ssp. a. strohbeeni Sternitzky, 1945 (Parnassius)
dodgei Gunder, 1932 (Parnassius)
ssp. b. clodius Ménétriés, 1857 (Parnassius)
castus Bryk, 1913 (Parnassius)
ssp. c. claudianus Stichel, 1907 (Parnassius)
baldus Ehrmann, 1918 (Parnassius)
kallias Ehrmann, 1918 (Parnassius)
ssp. d. pseudogallatinus Bryk, 1913 (Parnassius)
hel Eisner, 1956 (Parnassius)
ssp. e. incredibilis Bryk, 1935 (Parnassius)
ssp. f. sol Bryk & Eisner, 1932 (Parnassius)
sulfureus Gunder, 1932 (Parnassius)
ssp. g. baldur Edwards, 1877 (Parnassius)
binigrimaculella Gunder, 1926 (Parnassius)
lorquini Oberthür, 1891 (Parnassius)
lusca Stichel, 1907 (Parnassius)
ssp. h. altaurus Dyar, 1903 (Parnassius)
gallatinus Stichel, 1907 (Parnassius)
immaculata Skinner, 1911 (Parnassius)
shepardi Eisner, 1966 (Parnassius)
ssp. i. menetriesii Edwards, 1877 (Parnassius)

77a0350 P. phoebus (Fabricius, 1793) (Papilio) extralim. H 4155
NOTE: For many years this species has been referred to in NA and Europe as *P. phoebus* (described as *Papilio phoebus* by Fabricius, 1793), but that was based on a longstanding misidentification. That name applies to a species of the Altai Mountains in Asia. A different *P. phoebus* (described as *Papilio phoebus* by de Prunner, 1798) applies to the species of Europe and NA. However, the de Prunner name is a junior homonym of the Fabricius name so it is permanently unavailable. The oldest available name is *P. corybas* Fischer von Waldheim, 1823, and it has been applied recently to the NA species. A petition is currently before the ICZN to conserve the longstanding name *Parnassius phoebus* (Fabricius, 1793) for this species (Lukhtanov et al. 2019). Pending resolution of this matter, we retain the name *P. phoebus* (Fabricius, 1793).
americanus Bang-Haas, 1927 (Parnassius)
NOTE: The synonym *americanus* was erected for supposed NA populations of *Parnassius nomion*, which were based on misidentifications of *P. phoebus* material.
corybas of authors; not Fischer von Waldheim, 1823 (Parnassius) misappl.
nomion of authors; not Fischer von Waldheim, 1823 (Parnassius) misappl.
sedakovi of authors; not [Ménétriés], [1850] (Parnassius) misappl.; (excl.)
NOTE: This Palaearctic subspecies was reported in error for NA by Miller & Brown (1981). It was misspelled as "*sedakovii*" in Pelham (2008).
sedakovii; Pelham, 2008 (Parnassius) missp.
ssp. a. apricatus Stichel, 1906 (Parnassius)
alaskensis Eisner, 1956 (Parnassius)
elias Bryk, 1932 (Parnassius)
ssp. b. golovinus Holland, 1930 (Parnassius)

77a0351 P. smintheus Doubleday, 1847 (Parnassius) [NEW]
ssp. a. sternitzkyi McDunnough, 1937 (Parnassius)
ssp. b. olympianna Burdick, 1941 (Parnassius)
guppyi Wyatt, 1969 (Parnassius)
ssp. c. yukonensis Eisner, 1969 (Parnassius)
ssp. d. behrii Edwards, 1870 (Parnassius)
NOTE: Relegated to subspecies status by Zhang et al. (2022d).
astriotes Fruhstorfer, 1923 (Parnassius)
niger Wright, 1905 (Parnassius)
ssp. e. smintheus Doubleday, 1847 (Parnassius)
ernestinae Bryk & Eisner, 1935 (Parnassius)
manitobaensis Bryk & Eisner, 1935 (Parnassius)
minor Verity, [1907] (Parnassius)
minusculus Bryk, 1912 (Parnassius)
nanus Neumoegen, 1890 (Parnassius)
nigerrima Verity, [1907] (Parnassius)
rocky Grum-Grschmaïlo, 1890 (Parnassius)
verity Ehrmann, 1918 (Parnassius)
ssp. f. magnus Wright, 1905 (Parnassius)
idahoensis Bryk & Eisner, 1931 (Parnassius)
mendica Stichel, 1907 (Parnassius)
montanula Bryk & Eisner, 1935 (Parnassius)
xanthus Ehrmann, 1918 (Parnassius)
ssp. g. maximus Bryk & Eisner, 1937 (Parnassius)
pseudocorybas Verity, [1909] (Parnassius)
ssp. h. sayii Edwards, 1863 (Parnassius)
aristion Fruhstorfer, 1923 (Parnassius)
catullius Fruhstorfer, 1923 (Parnassius)
dakotaensis Bryk & Eisner, 1935 (Parnassius)
fermata Bryk, 1921 (Parnassius)

hermodur Edwards, 1881 (Parnassius)
hollandi Bryk & Eisner, 1935 (Parnassius)
leonhardi Bryk, 1912 (Parnassius)
mariae Bryk, 1912 (Parnassius)
melanophorus Bryk, 1921 (Parnassius)
montanus Ehrmann, 1918 (Parnassius)
polus Ehrmann, 1917 (Parnassius)
quincunx Bryk, 1915 (Parnassius)
reducta Bang-Haas, 1938 (Parnassius)
rotgeri Bang-Haas, 1938 (Parnassius)
rubina Wyatt, 1961 (Parnassius)
sordellus Fruhstorfer, 1923 (Parnassius)
utahensis Rothschild, 1918 (Parnassius)
ssp. i. pseudorotgeri Eisner, 1966 (Parnassius)

Subfamily PAPILIONINAE Latreille, [1802]

Tribe LEPTOCIRCINI Kirby, 1896

Genus EURYTIDES Hübner, [1821]

NOTE: Zhang et al. (2019b) determined this synonymy. They also determined that the application of the genus *Protographium* Munroe, 1961 to any New World swallowtail is unwarranted.

BELLEROGRAPHIUM Möhn, 2002

Subgenus NEOGRAPHIUM Möhn, 2002
ASIOGRAPHIUM Möhn, 2002
EURYGRAPHIUM Möhn, 2002

77a0352 E. philolaus (Boisduval, 1836) (Papilio) 4185
ssp. a. philolaus (Boisduval, 1836) (Papilio)
ajax (Eimer, 1889) (Papilio)
felicis (Fruhstorfer, 1904) (Papilio)
niger (Eimer, 1889) (Papilio)
nigrescens (Eimer, 1889) (Papilio)
vazquezae Beutelspacher, 1976 (Eurytides)

77a0353E E. celadon (Lucas, 1852) (Papilio) EXCL. [NEW]
NOTE: This Cuban endemic has been reported from south FL by various workers, but none of these has been verified. It was excluded from the NA fauna by Pelham (2008).

Subgenus BOREOGRAPHIUM Grishin, 2021

77a0354 E. marcellus (Cramer, [1777]) (Papilio) 4184
abbottii (Edwards, [1872]) (Papilio)
ajax (Linnaeus, 1758) (Papilio) (in part); unavail.
NOTE: ICZN (1954b) Opinion 286 suppressed this name, and placed it on the Official Index of Unavailable and Rejected Names as name no. 68. The original description of *ajax* applied to several different species. Linnaeus based his description on figures from earlier authors, and in NA the species figured include *Eurytides marcellus*, *Papilio glaucus* and *P. polyxenes asterius*.
annonae (Fabricius, 1938) (Papilio)
broweri (Gunder, 1927) (Papilio)
cubensis (Boullet & Le Cerf, 1912) (Papilio)
floridensis (Holland, 1898) (Papilio)
floridensis (Klots, 1951) (Papilio)
lecontei (Rothschild & Jordan, 1906) (Papilio)
nigrosuffusa (Field, 1936) (Iphiclides)
pricei (Field, 1936) (Iphiclides)
telamonides (Felder & Felder, 1864) (Papilio)
tockhorni (Schultz, 1908) (Papilio)
walshii (Edwards, [1872]) (Papilio)

Subgenus MIMOIDES Brown, 1991
NOTE: New status following Zhang et al. (2019b); this corresponds to the *marcellus* species group of Brown (1991).

77a0355 E. phaon (Boisduval, 1836) (Papilio) [NEW]
NOTE: Reported for TX by Reid (2008).
ssp. a. phaon (Boisduval, 1836) (Papilio)
eridamus (Reakirt, 1866) (Papilio)
immarginatus (Oberthür, 1879) (Papilio)
metaphaon (Butler, 1874) (Papilio)
pharax (Godman & Salvin, 1890) (Papilio)
praxenus (Ehrmann, 1919) (Papilio)
ulopos (Gray, [1853]) (Papilio)
xenarchus (Hewitson, 1861) (Papilio)

Tribe TROIDINI Talbot, 1939

Subtribe TROIDINA Talbot, 1939

Genus PARIDES Hübner, [1819]

Subgenus PARIDES Hübner, [1819]
ASCANIDES Geyer, 1837
BLAKEA Grote, 1876
ENDOPOGON Lacordaire, 1833
HECTORIDES Hübner, 1821
MINEROIDES Bryk, 1930

77a0356 P. eurimedes (Stoll, in: Cramer, [1782]) (Papilio) extralim. 4156
ssp. a. mylotes (Bates, 1861) (Papilio)
aristomenes (Felder & Felder, [1865]) (Papilio)
caleli (Reakirt, 1863) (Papilio)
docimus (Gray, 1856) (Papilio)
tonila (Reakirt, 1863) (Papilio)

77a0357 P. alopius (Godman & Salvin, 1890) (Papilio) STRAY [NEW]
lopiusa (Schaus, 1911) (Papilio)
tepoztecatl de la Maza, 1976 (Parides)

Subtribe BATTINA Munroe & Ehrlich, 1960

Genus BATTUS Scopoli, 1777
BATTUOSA Möhn, 1999
ITHOBALUS Hübner, [1819]
LAERTIAS Hübner, [1819]

77a0358 B. philenor (Linnaeus, 1771) (Papilio) 4157
ssp. a. philenor (Linnaeus, 1771) (Papilio)
astinous (Drury, 1773) (Papilio)
nezahualcoyotl (Strecker, 1885) (Papilio)
obsoleta (Ehrmann, 1900) (Papilio)
serpentariae (Fabricius, 1938) (Papilio)
wasmuthii (Weeks, 1901) (Papilio)
ssp. b. hirsuta (Skinner, 1908) (Papilio)
inghami (Gunder, 1927) (Papilio)

77a0359 B. polydamas (Linnaeus, 1758) (Papilio) 4158
ssp. a. polydamas (Linnaeus, 1758) (Papilio)
anguicidas (Fabricius, 1938) (Papilio)
ssp. b. lucayus (Rothschild & Jordan, 1906) (Papilio)

77a0360E B. devilliers (Godart, [1824]) (Papilio) EXCL. [NEW]
NOTE: This species, often amended to "*devilliersii*", has been reported from FL for almost 200 years, most recently by Holland (1930). No vouchers are known and it was excluded from the NA fauna by Pelham (2008).
devilliersii; ([various, no date]) (Papilio) emend.; (excl.)

Tribe PAPILIONINI Latreille, [1802]

Genus PAPILIO Linnaeus, 1758

Subgenus PAPILIO Linnaeus, 1758
ACHIVUS Kirby, 1896
AERNAUTA Berge, 1842
AMARYSSUS Dalman, 1816
PRINCEPS Hübner, [1806]
SINOPRINCEPS Hancock, 1983

77a0361 P. xuthus Linnaeus, 1767 (Papilio) emend. H/I [NEW]
xanthus; Linnaeus, 1767 (Papilio) orig. missp.
xuthulinus Murray, 1874 (Papilio)
xuthulus Bremer, 1861 (Papilio)

77a0362 P. indra Reakirt, 1866 (Papilio) 4168
ssp. a. shastensis Emmel & Emmel, 1998 (Papilio)
ssp. b. indra Reakirt, 1866 (Papilio)
ssp. c. phyllisae Emmel, 1982 (Papilio)
ssp. d. pergamus Edwards, 1874 (Papilio)
ssp. e. fordi Comstock & Martin, 1956 (Papilio)
ssp. f. pygmaeus Emmel, Emmel & Griffin, 1998 (Papilio)
parvindra Emmel, Emmel & Griffin, 2008 (Papilio)
ssp. g. martini Emmel & Emmel, 1966 (Papilio)
ssp. h. panamintensis Emmel, 1982 (Papilio)
ssp. i. nevadensis Emmel & Emmel, 1971 (Papilio)
ssp. j. calcicola Emmel & Griffin, 1998 (Papilio)

ssp. k. minori Cross, 1936 (Papilio)
ssp. l. kaibabensis Bauer, 1955 (Papilio)
77a0363 P. machaon Linnaeus, 1758 (Papilio) extralim. H 4166
ssp. a. aliaska Scudder, 1869 (Papilio)
joannisi Verity, [1907] (Papilio)
petersii Clark, 1932 (Papilio)
ssp. b. hudsonianus Clark, 1932 (Papilio)
avinoffi Chermock & Chermock, 1937 (Papilio)
comstocki Scott, 1986 (Papilio)
comstocki Scott & Troubridge, 1981 (Papilio)
frechini Seyer, 1977 (Papilio)
kahli Chermock & Chermock, 1937 (Papilio) *[4162]*
NOTE: Dupuis & Sperling (2016) concluded that the taxon *kahli* probably originated from hybrid *P. machaon* x *P. polyxenes* stock. They treated it as a subspecies of *P. machaon* but that is not followed here, pending further research.
kwakwapooshesi Seyer, 1977 (Papilio)
prestoni Seyer, 1977 (Papilio)
ssp. c. pikei Sperling, 1987 (Papilio)
ssp. d. oregonia Edwards, 1876 (Papilio) [4165]
ssp. e. dodi McDunnough, 1939 (Papilio)
ssp. f. bairdii Edwards, 1866 (Papilio) [4164]
ampliata Scott, 1981 (Papilio)
brucei Edwards, 1895 (Papilio)
comstocki Scott, 1981 (Papilio)
hollandii Edwards, 1892 (Papilio)
utahensis Strecker, [1878] (Papilio)
77a0364 P. brevicauda Saunders, 1868 (Papilio) 4163
ssp. a. brevicauda Saunders, 1868 (Papilio)
anticostiensis Strecker, 1873 (Papilio)
ssp. b. gaspeensis McDunnough, 1934 (Papilio)
ssp. c. bretonensis McDunnough, 1939 (Papilio)
77a0365 P. joanae Heitzman, 1973 (Papilio) 4160
77a0366 P. polyxenes Fabricius, 1775 (Papilio) extralim.H 4159
ajax Linnaeus, 1758 (Papilio) (in part); unavail.
NOTE: This unavailable name has been historically applied to *P. polyxenes*, as well as other species (see note under *Eurytides marcellus*).
ssp. a. asterius Stoll, in: Cramer, [1782] (Papilio)
alunata Skinner & Aaron, 1889 (Papilio)
ampliata Ménétriés, 1857 (Papilio)
asterioides Reakirt, [1867] (Papilio)
calverleyi Grote, 1864 (Papilio)
curvifascia Skinner, 1902 (Papilio)
ehrmanni Ehrmann, 1925 (Papilio)
forsythae Wood, 1937 (Papilio)
gertrudis Kruck, 1931 (Papilio)
gracehus Fabricius, 1938 (Papilio)
masculina Reiff, 1911 (Papilio)
mediocauda Eimer, 1895 (Papilio)
pseudoamericus Brown, [1943] (Papilio)
semialba Ehrmann, 1900 (Papilio)
subamplicata Dufrane, 1946 (Papilio)
viridis Cockerell, 1889 (Papilio)
ssp. b. rudkini Comstock, 1935 (Papilio) [4161]
clarki Chermock & Chermock, 1937 (Papilio)
comstocki Chermock & Chermock, 1937 (Papilio)
ssp. c. stabilis Rothschild & Jordan, 1906 (Papilio) (excl.)
NOTE: This extralimital subspecies was reported from AZ by Brown ([1943]) and dos Passos (1964) based on a misidentification (Pelham 2008).
ssp. d. americus Kollar, 1850 (Papilio) (excl.)
NOTE: Historical NA records (including in Barnes & McDunnough 1916) are misidentifications; this subspecies does not occur in NA.
77a0367 P. zelicaon Lucas, 1852 (Papilio) 4167
ampliatanitra Scott, 1981 (Papilio)
californica Ménétriés, 1855 (Papilio)
coloro Wright, 1905 (Papilio)
comstocki Scott, 1981 (Papilio)
formosa Fischer, 1908 (Papilio)
gothica Remington, 1968 (Papilio)
impunctata Fischer, 1908 (Papilio)
macdunnoughi; dos Passos, 1964 (Papilio) emend.
mcdunnoughi Gunder, 1928 (Papilio)
melanotaenia Fischer, 1908 (Papilio)
nitra Edwards, [1884] (Papilio)
zolicaon Boisduval, 1852 (Papilio)

Subgenus PRINCEPS Hübner, 1807
ARAMINTA Moore, 1886

77a0368 P. demoleus Linnaeus, 1758 (Papilio) I [NEW]
NOTE: A specimen of this South Asian species reported by Tilden (1968) from Palo Alto, CA, was considered an unestablished accidental introduction by Pelham (2008), but since then, three more records have been posted to iNaturalist, and immature stages have been collected on Key West, FL. It is hereby recognized as an introduced species in NA.
ssp. a. demoleus Linnaeus, 1758 (Papilio)
demoleinus Oberthür, 1879 (Papilio)
epius Fabricius, 1793 (Papilio)
erithonius Cramer, [1779] (Papilio)
flavosignatus Heidemann, 1954 (Papilio)
libanius Fruhstorfer, 1908 (Papilio)

Genus HERACLIDES Hübner, [1819]
NOTE: Recognition of *Heraclides* and *Pterourus* as full genera distinct from *Papilio* has been proposed for many years, most notably in NA by Miller & Brown (1981), and that view has gained widespread acceptance. Zhang et al. (2019b) confirmed this and elevated several previous synonyms to subgenera. That treatment is tentatively accepted herein.

Subgenus PRIAMIDES Hübner, [1819]
TROILIDES Hübner, [1825]

77a0369 H. anchisiades (Esper, 1788) (Papilio) extralim. 4183
ssp. a. idaeus (Fabricius, 1793) (Papilio)
pandion (Bates, 1863) (Papilio)
pandion (Felder & Felder, 1865) (Papilio)
pandonius (Staudinger, 1894) (Papilio)
77a0370 H. rogeri (Boisduval, 1836) (Papilio) extralim. [NEW]
ssp. a. pharnaces (Doubleday, 1846) (Papilio)
dissimilis (Vázquez, 1957) (Papilio)
paucimaculata (Vázquez, 1947) (Papilio)
phanostratus (Godman & Salvin, 1890) (Papilio)
polycharmus (Godman & Salvin, 1890) (Papilio)

Subgenus HERACLIDES Hübner, [1819]
THOAS Swainson, 1833

77a0371 H. andraemon Hübner, [1823] (Heraclides) 4172
ssp. a. andraemon Hübner, [1823] (Heraclides)
hernandezi (Torre, 1936) (Papilio)
ssp. b. bonhotei (Sharpe, 1900) (Papilio)
77a0372 H. caiguanabus (Poey, 1852) (Papilio) STRAY [NEW]
NOTE: This Cuban endemic was recorded as a stray from FL by Calhoun & Kolterman (2018).
numicus (Hopffer, 1856) (Papilio)
77a0373 H. thoas (Linnaeus, 1771) (Papilio) extralim. 4169
ssp. a. autocles (Rothschild & Jordan, 1906) (Papilio)
nigrimarginata (Beutelspacher, 1976) (Papilio)
nigrocaudata (Vázquez, 1948) (Papilio)
ochracea (Beutelspacher, 1976) (Papilio)
ssp. b. cinyras (Ménétriés, 1857) (Papilio) (excl.)
NOTE: Listed in error from NA by Skinner (1905). This is an extralimital subspecies (Pelham 2008).
ssp. c. oviedo (Gundlach, 1866) (Papilio) (excl.)
NOTE: This Cuban subspecies was listed in error for NA by Miller & Brown (1981).
77a0374 H. cresphontes (Cramer, [1777]) (Papilio) 4170
forsythae (Gunder, 1933) (Papilio)
intacta (Strand, 1918) (Papilio)
lurida (Schultz, 1908) (Papilio)
luxuriosa (Reiff, 1911) (Papilio)
maxwelli (Franck, 1919) (Papilio)
oxilus Hübner, [1819] (Heraclides)
pennsylvanicus (Chermock & Chermock, 1945) (Papilio)
77a0375 H. rumiko Shiraiwa & Grishin, 2014 (Heraclides) [NEW]
melanurus (Hoffmann, 1940) (Papilio)

Subgenus CALAIDES Hübner, [1819]

77a0376X H. androgeus (Cramer, [1775]) (Papilio) extralim.; EXTIRPATED 4175
NOTE: This distinctive Caribbean butterfly was resident in southern FL between 1976 and 1983, but has not been seen since and is presumed to be extirpated from NA (Brock & Kaufman 2003).
ssp. a. epidaurus (Godman & Salvin, 1890) (Papilio) (extirpated)
ochracea (Beutelspacher, 1976) (Papilio)

77a0377 H. ponceana (Schaus, 1911) (Papilio) [NEW]
NOTE: Zhang et al. (2020) determined that *H. ponceana* is a species distinct from *H. aristodemus*. The latter taxon, with its synonyms *cresphontinus* (Martyn, 1797) and *daphnis* (Gray, [1853]) are removed from the catalog.
aristodemus of authors; (not Esper, 1794) (Papilio) misappl. *[4171]*
driophilus (Clench, 1979) (Papilio)

77a0378 H. pallas (Gray, [1853]) (Papilio) [NEW]
NOTE: Pelham (2008) considered this name to be a nomen nudum, but Shiraiwa et al. (2014) treated it as a valid species, distinct from *H. astyalus* which does not occur in NA. Brock & Kaufman (2003) considered it a stray in NA, but it breeds at least occasionally in TX.
astyalus of authors; (not Godart, 1819) (Papilio) misappl. *[4173]*
ssp. a. pallas (Gray, [1853]) (Papilio) (stray)
hozaus (Ehrmann, 1921) (Papilio)
ssp. b. bajaensis (Brown & Faulkner, 1992) (Papilio) (stray)
occidentalis (Brown & Faulkner, 1984) (Papilio)

77a0379 H. ornythion (Boisduval, 1836) (Papilio) 4174

Genus PTEROURUS Scopoli, 1777
NOTE: See note under genus *Heraclides*. Zhang et al. (2021) elevate *Jasoniades* and *Pyrrhosticta* to subgenus level.

Subgenus PTEROURUS Scopoli, 1777
CAUDATI Koch, 1860
EUPHOEADES Hübner, [1819]
MOTASIONA Niculescu, 1979

77a0380 P. pilumnus (Boisduval, 1836) (Papilio) STRAY 4180

77a0381 P. troilus (Linnaeus, 1758) (Papilio) 4181
ssp. a. troilus (Linnaeus, 1758) (Papilio)
addenda (Dufrane, 1946) (Papilio)
anethi (Fabricius, 1938) (Papilio)
berioi (Dufrane, 1946) (Papilio)
flava (Dufrane, 1946) (Papilio)
ilioneus (Smith, 1797) (Papilio)
obliterata (Dufrane, 1946) (Papilio)
radiatus (Strecker, 1900) (Papilio)
texanus (Ehrmann, 1900) (Papilio)
ssp. b. fakahatcheensis Gatrelle, 2000 (Pterourus)

77a0382 P. palamedes (Drury, 1773) (Papilio) 4182
ssp. a. palamedes (Drury, 1773) (Papilio)
chalcas (Fabricius, 1775) (Papilio)
ssp. b. leontis (Rothschild & Jordan, 1906) (Papilio)

Subgenus JASONIADES Hübner, [1819]

77a0383 P. multicaudata (Kirby, 1884) (Papilio) 4178
ssp. a. multicaudata (Kirby, 1884) (Papilio)
daunus (Boisduval, 1836) (Papilio)
ragani (Barnes, 1928) (Papilio)
ssp. b. pusillus (Austin & Emmel, 1998) (Papilio)
minimulticaudatus (Fisher & Scott, 2012) (Papilio)

77a0384 P. rutulus (Lucas, 1852) (Papilio) 4177
ammoni (Behrens, 1887) (Papilio)
arizonensis (Edwards, 1883) (Papilio)
fannyae (Gunder, 1927) (Papilio)
hospitonina (Boullet & Le Cerf, 1912) (Papilio)
minirutulus (Fisher, 2012) (Papilio)
rutulus (Boisduval, 1852) (Papilio)

77a0385 P. eurymedon (Lucas, [1852] 1805) (Papilio) 4179
albanus (Felder & Felder, 1865) (Papilio)
cocklei (Gunder, 1925) (Papilio)
columbiana (Gunder, 1927) (Papilio)
eurymedon (Boisduval, 1852) (Papilio)
lewisii (Kirby, 1884) (Papilio)
subnigrata (Schultz, 1908) (Papilio)

77a0386 P. glaucus (Linnaeus, 1758) (Papilio) 4176
ssp. a. glaucus (Linnaeus, 1758) (Papilio)
ajax (Linnaeus, 1758) (Papilio) (in part); unavail.
NOTE: This unavailable name has been historically applied to *P. glaucus* (e.g., by Ferguson 1954a), as well as to other species (see note under *Eurytides marcellus*).
alcidamus (Cramer, [1775]) (Papilio)
antilochus (Linnaeus, 1758) (Papilio)
delunaris (Schultz, 1908) (Papilio)
dietzi (Gunder, 1927) (Papilio)
ehrmanni (McDunnough, 1938) (Papilio)
gerhardi (Gunder, 1927) (Papilio)
imperfecta (Reiff, 1911) (Papilio)
lauri (Fabricius, 1938) (Papilio)
niger (Hering, 1912) (Papilio)
nigra (Scott, 1981) (Papilio)
paupercula (Reiff, 1911) (Papilio)
perfulva (Schultz, 1908) (Papilio)
turnus (Linnaeus, 1771) (Papilio)
wheeleri (Reiff, 1911) (Papilio)
ssp. b. maynardi (Gauthier, 1984) (Papilio)
australis (Maynard, 1891) (Papilio)

77a0387 P. alexiares (Hopffer, 1866) (Papilio) extralim. [NEW]
ssp. a. garcia (Rothschild & Jordan, 1906) (Papilio)

77a0388 P. canadensis (Rothschild & Jordan, 1906) (Papilio) [NEW]
arcticus (Skinner, 1906) (Papilio)
borealis (Boullet & Le Cerf, 1912) (Papilio)
deficiens (Dufrane, 1946) (Papilio)
fletcheri (Kemp, 1900) (Papilio)

77a0389 P. appalachiensis Pavulaan & Wright, 2002 (Pterourus) [NEW]
NOTE: This species is derived from hybridization events between *P. canadensis* and *P. glaucus* (Pavulaan & Wright 2002).

Subgenus PYRRHOSTICTA Butler, 1872

77a0390 P. garamas (Geyer, [1829]) (Euphoeades) extralim.; STRAY [NEW]
ssp. a. abderus (Hopffer, 1856) (Papilio) (stray)
amerias (Rothschild & Jordan, 1906) (Papilio)

77a0391 P. victorinus (Doubleday, 1844) (Papilio) [NEW]
ssp. a. victorinus (Doubleday, 1844) (Papilio)
amphissus (Hopffer, 1866) (Papilio)
eritromaculata (Beutelspacher, 1976) (Papilio)
helleri (Felder & Felder, [1865]) (Papilio)
menatius of authors; (not Hübner, [1819]) (Calaides) misappl.
NOTE: Reported from NA under a previous taxonomic arrangement; "true" *P. menatius* does not occur in NA (Pelham 2008).

72. Family PIERIDAE Swainson, 1820 (sulphurs, whites, and marbles)

by Jonathan P. Pelham & Gregory R. Pohl

Pierids are medium-sized to large butterflies, with wingspans of about 30 to 60 mm, and are generally white, yellow, orange, or greenish, and marked in black and other colors. The larvae are cylindrical, striped and covered in fine, short hair. Most feed on crucifers or legumes.

The family Pieridae contains about 1,160 named species, 82 of which are recorded in the Nearctic region. The Pieridae were included in the Nearctic butterfly catalog published online recently by Pelham (2022), and the classification in the current work is almost identical.

Subfamily DISMORPHIINAE Schatz, [1886] 1833

Genus ENANTIA Hübner, [1819]

LICINIA Swainson, 1820

77a0392 E. albania (Bates, 1864) (Leptalis) STRAY [NEW]
ssp. a. albania (Bates, 1864) (Leptalis) (stray)
immaculata (Hoffmann, 1940) (Dismorphia)
mazai of authors; not Llorente, 1984 (Enantia) misappl.
NOTE: Reported from NA under a previous taxonomic concept; "true" *E. mazai* does not occur in NA (Pelham 2008).
melite of authors; (not Linnaeus, 1763) (Papilio) misappl. *[4186]*
NOTE: Reports of this species in NA are based on a previous taxonomic concept; NA records refer to *E. albania* (Pelham 2008).
mita (Reakirt, [1867]) (Leptalis)

77a0393E E. jethys (Boisduval, 1836) (Leptalis) EXCL. [NEW]
NOTE: Report of this species from NA by Skinner (1905) is a misidentification (Pelham 2008).

Subfamily COLIADINAE Swainson, 1821

Genus KRICOGONIA Reakirt, [1864]

77a0394 K. lyside (Godart, 1819) (Colias) 4235
anorbus Scott, 1981 (Kricogonia)
fantasia Butler, 1871 (Kricogonia)
lanice Lintner, [1885] (Kricogonia)
occidentalis Torre, 1988 (Kricogonia)
terissa (Boisduval, 1870) (Rhodocera)
terissa (Lucas, 1852) (Rhodocera)
unicolor Godman & Salvin, 1889 (Kricogonia)
xanthophila Röber, 1909 (Kricogonia)

Genus NATHALIS Boisduval, 1836

77a0395 N. iole Boisduval, 1836 (Nathalis) 4248
ssp. a. iole Boisduval, 1836 (Nathalis)
alayoi Torre, 1951 (Nathalis)
albida Avinoff & Shoumatoff, 1941 (Nathalis)
felicia Poey, 1852 (Nathalis)
immaculata Field, 1936 (Nathalis)
irene Fitch, 1857 (Nathalis)
luteolus Reakirt, [1864] (Nathalis)
pallida Field, 1936 (Nathalis)
viridis Whittaker & Stallings, 1944 (Nathalis)

Genus EUREMA Hübner, [1819]

HEUREMA Agassiz, 1846

77a0396 E. daira (Godart, 1819) (Pieris) 4243
ssp. a. sidonia (Felder, 1869) (Terias)
cepio (Godman & Salvin, 1889) (Terias)
ssp. b. daira (Godart, 1819) (Pieris)
alba Scott, 1986 (Eurema)
delia (Cramer, [1780]) (Papilio)
delioides Haskin, 1933 (Eurema)
demoditas Hübner, [1819] (Eurema)
fusca Harris, 1931 (Eurema)
jucunda (Boisduval & Le Conte, [1830]) (Xanthidia)
lemnia (Felder & Felder, 1865) (Terias)
rosa Scott, 1986 (Eurema)
ssp. c. palmira (Poey, [1852] 1853) (Terias) [4244]
albina (Poey, 1853) (Terias)
cubana (Herrich-Schäffer, 1865) (Terias)
ebriola (Poey, 1853) (Terias)
ssp. d. eugenia (Wallengren, 1860) (Terias)
pallidula Klots, 1929 (Eurema)
persistens (Butler & Druce, 1872) (Terias)
solana (Reakirt, 1866) (Terias)
ssp. e. lydia (Felder & Felder, 1861) (Terias) (excl.)
NOTE: This South American subspecies was reported in error from NA by Miller & Brown (1981).

Genus PYRISITIA Butler, 1870

77a0397 P. messalina (Fabricius, 1787) (Papilio) 4239
blakei (Maynard, 1891) (Terias)
bulaea (Boisduval, 1836) (Terias)
gnathene (Boisduval, 1836) (Terias)
iradia (Poey, [1852] 1853) (Terias)

77a0398 P. lisa (Boisduval & Le Conte, [1830]) (Xanthidia)
ssp. a. lisa (Boisduval & Le Conte, [1830]) (Xanthidia)
alba (Strecker, 1878) (Terias)
clappii (Maynard, 1891) (Terias)
euterpe of authors; (not Ménétriés, 1832) (Eurema) misappl.
NOTE: This European name was used in error in NA by Perin & Russell (1912).
immaculata (Whittaker & Stallings, 1944) (Eurema)
ssp. b. centralis (Herrich-Schäffer, 1865) (Terias)

77a0399 P. nise (Cramer, [1775]) (Papilio) 4238
ssp. a. nise (Cramer, [1775]) (Papilio)
larae (Herrich-Schäffer, 1862) (Terias)
neda (Godart, 1819) (Pieris)
ssp. b. nelphe (Felder, 1869) (Terias)
linda (Edwards, 1884) (Terias)
venustula (Staudinger, 1875) (Terias)
ssp. c. tenella (Boisduval, 1836) (Terias) (excl.)
perimede (Prittwitz, 1865) (Terias) (excl.)
NOTE: This name, a synonym of the extralimital subspecies *tenella*, was reported from NA by Klots (1928) and Stallings & Turner (1946) based on a misidentification.

77a0400 P. dina (Poey, 1832) (Terias) extralim. 4240
ssp. a. helios (Bates, 1934) (Eurema)

77a0401 P. westwoodii (Boisduval, 1836) (Terias) [NEW]
NOTE: Zhang et al. (2021) determined that *P. dina* and *P. westwoodii* are distinct species. The synonym *calceolaria* was not mentioned therein, but based on the TL (Honduras), it is hereby transferred to synonymy with *P. westwoodii*.
calceolaria (Butler & Druce, 1872) (Terias) REV. SYN.

77a0402 P. proterpia (Fabricius, 1775) (Papilio) 4236
atzin (Arias, 1968) (Tlotzin)
gundlachia (Poey, 1853) (Terias)
imitatrix (d'Almeida, 1932) (Terias)
longicauda (Bates, 1864) (Terias)
morleyi (Coxey, 1932) (Eurema)
watsonia (Klots, 1923) (Eurema)

77a0403E P. chamberlaini (Butler, 1898) (Eurema) EXCL. 4241
NOTE: A supposed specimen from FL (Scott 1986) has been lost; the species was excluded from the NA fauna by Pelham (2008).

Genus ABAEIS Hübner, [1819]

NOTE: Zhang et al. (2019b) treated *Lucidia* and *Sphaenogona* as subgenera but that is not followed herein.
LUCIDIA Lacordaire, 1833
SPHAENOGONA Butler, 1870
XANTHIDIA Boisduval & Le Conte, [1830]

77a0404 A. nicippe (Cramer, [1779]) (Papilio) 4242
callae (Field, 1936) (Eurema)
dammersi (Gunder, 1930) (Eurema)
flava (Strecker, 1878) (Terias)
pallens (Whittaker & Stallings, 1944) (Eurema)

rosa (Scott, 1986) (Eurema)

0405 A. boisduvaliana (Felder & Felder, 1865) (Terias)
arbela of authors; (not Geyer, 1832) (Eurema) misappl.
NOTE: Lamas (2004) treated *boisduvaliana* as a subspecies of *Eurema arbela*, but *A. boisduvaliana* is treated herein as a full species following Pelham (2008).
ingrata (Felder, 1869) (Terias)
rosa (Scott, 1986) (Eurema)

77a0406 A. mexicana (Boisduval, 1836) (Terias) 4246
ssp. a. mexicana (Boisduval, 1836) (Terias)
biedermanni (Ehrmann, 1925) (Eurema)
damaris (Felder & Felder, 1865) (Terias)
depuiseti (Boisduval, 1870) (Terias)
recta (Klots, 1929) (Eurema)
rosa (Whittaker & Stallings, 1944) (Eurema)

77a0407 A. salome (Felder & Felder, 1861) (Terias)
extralim.; STRAY 4247
ssp. a. jamapa (Reakirt, 1866) (Terias) (stray)
ssp. b. limoneus (Felder & Felder, 1861) (Terias) (excl.)
NOTE: This South American subspecies was reported from NA by Miller & Brown (1981) in error (Pelham 2008).

77a0408 A. albula (Cramer, [1775]) (Papilio) extralim. [NEW]
ssp. a. celata (Felder, 1869) (Terias)
leucilla (Felder, 1869) (Terias)

Genus COLIAS [Fabricius, in: Illiger], 1807
ASIOCOLIAS Korb, 2005
COLIASTES Hemming, 1931
ERIOCOLIAS Watson, 1895
EUCOLIAS Berger, 1986
EURYMUS Horsfield, [1829]
GANURA Zetterstedt, 1839
MESOCOLIAS Petersen, 1963
NEOCOLIAS Berger, 1986
PALAEOCOLIAS Berger, 1986
PARACOLIAS Berger, 1986
PROTOCOLIAS Petersen, 1963
SCALIDONEURA Butler, 1871
SIMILICOLIAS Berger, 1986

77a0409 C. boothii Curtis, 1835 (Colias) [NEW]
NOTE: NA populations previously treated as *Colias tyche boothii* (i.e., by Layberry et al. 1998) are now recognized as *C. boothii*, a species distinct from the Palaearctic *C. tyche* (Hammond & McCorkle 2017).
tyche of authors; (not Böber, 1812) (Papilio) misappl.
werdandi of authors; not Zetterstedt, 1839 (Colias) misappl.
NOTE: Dyar (1903) listed *werdandi* as a subspecies of *C. palaeno*. That record refers to *C. boothii*; *werdandi* is now considered a subspecies of the Palaearctic *C. tyche*.
ssp. a. boothii Curtis, 1835 (Colias) [4215]
chione Curtis, 1835 (Colias)
ssp. b. canadensis Ferris, 1982 (Colias)
flavaurantia Hammond & McCorkle, 2017 (Colias)
kaija Hammond & McCorkle, 2017 (Colias)
lydia Hammond & McCorkle, 2017 (Colias)
ssp. c. thula Hovanitz, 1955 (Colias) [4217]
ssp. d. kolosovae Churkin, Grieshuber, Bogdanov & Zamolodchikov, 2001 (Colias)
olga Churkin, Grieshuber, Bogdanov & Zamolodchikov, 2001 (Colias)

77a0410 C. nastes Boisduval, 1832 (Colias) H 4216
NOTE: Several subspecies (*donjek*, *kwanlindun*, *ogilviensis*, *tagish*, *muskwa*, and *nlakapamux*) described recently by Jakubek & Kir'yanov (2021) are not consistent with the postglacial biogeographical history of the Arctic region, and are treated here as synonyms.
ssp. a. nastes Boisduval, 1832 (Colias)
gueneei Avinoff, 1935 (Colias)
heclides Verity, [1911] (Colias)
rossii Guenée, 1864 (Colias)
standfussi Röber, 1909 (Colias)
variabilis Verhulst, 2009 (Colias)
ssp. b. moina Strecker, 1880 (Colias)
harperi (Gunder, 1932) (Eurymus)
ssp. c. aliaska Bang-Haas, 1927 (Colias)
cocandicides Verity, [1911] (Colias)
donjek Jakubek & Kir'yanov, 2021 (Colias)
ferrisi Verhulst, 2004 (Colias)
NOTE: Hammond & McCorkle (2017) treated this is a distinct species.
kwanlindun Jakubek & Kir'yanov, 2021 (Colias)
ogilviensis Jakubek & Kir'yanov, 2021 (Colias)
subarctica (McDunnough, 1928) (Eurymus)
tagish Jakubek & Kir'yanov, 2021 (Colias)
4245 ssp. d. dezhnevi Korshunov, 1995 (Colias)
sibirica Kurentsov, 1970 (Colias)
ssp. e. streckeri Grum-Grschmaïlo, 1895 (Colias)
NOTE: Hammond & McCorkle (2017) treated this is a distinct species.
dioni Verhulst, 1999 (Colias)
muskwa Jakubek & Kir'yanov, 2021 (Colias)
nlakapamux Jakubek & Kir'yanov, 2021 (Colias)
obscurata Verity, [1911] (Colias)
palliflava (McDunnough, 1927) (Eurymus)

77a0411 C. johanseni Troubridge & Philip, 1990 (Colias) [NEW]
NOTE: Scott (2008) and Hammond & McCorkle (2017) treated this as a subspecies of *C. meadii*.

77a0412 C. rankinensis Verhulst, 2009 (Colias) [NEW]
NOTE: Schmidt (2018b) examined arctic *Colias* specimens, and found this recently described species to be more broadly distributed than first described (by Verhulst 2009).

77a0413 C. hecla Lefèbvre, 1836 (Colias) 4214
ssp. a. hecla Lefèbvre, 1836 (Colias)
alba Scott, 1986 (Colias)
chrysothemoides Verity, [1911] (Colias)
glacialis M'Lachlan, 1878 (Colias)
groenlandica Rühl, 1893 (Colias)
palamedes Hemming, 1934 (Colias)
pallida [Skinner], 1892 (Colias)
zetterstedti Grum-Grschmaïlo, 1890 (Colias)
ssp. b. hela Strecker, 1880 (Colias)
NOTE: Grieshuber et al. (2012) conclude that this taxon has been confused with *C. rankinensis*; the syntypes represent a taxon that is probably a synonym of *C. hecla*.
ssp. c. zamolodchikovi Churkin & Grieshuber, 2001 (Colias)

77a0414 C. scudderii Reakirt, 1865 (Colias) 4223
alba Scott, 1986 (Colias)
flavotincta Cockerell, 1901 (Colias)
ruckesi Klots, 1937 (Colias)

77a0415 C. gigantea Strecker, 1900 (Colias) 4222
ssp. a. inupiat Harry, 2007 (Colias)
ssp. b. gigantea Strecker, 1900 (Colias)
pelidneides Staudinger, 1901 (Colias)
ssp. c. mayi Chermock & Chermock, 1940 (Colias)
marjorie Chermock & Chermock, 1940 (Colias)
nortepacifica Hammond & McCorkle, 2008 (Colias)
NOTE: Hammond & McCorkle described this taxon based on three specimens. It is uncertain whether this is a valid taxon as described, a synonym of some other *Colias gigantea subspecies*, or some other *Colias* species. Until such time as this can be determined, this name is listed here as a synonym.
ssp. d. harroweri Klots, 1940 (Colias)
gracemma Hammond & McCorkle, 2008 (Colias)
kohleri Hammond & McCorkle, 2008 (Colias)

77a0416 C. meadii Edwards, 1871 (Colias) 4213
ssp. a. meadii Edwards, 1871 (Colias)
alba Scott, 1986 (Colias)
andelis Grum-Grschmaïlo, 1907 (Colias)
apishapa Fisher, 2012 (Colias)
medi (Gunder, 1934) (Eurymus)
ssp. b. lemhiensis Curtis & Ferris, 1985 (Colias)

77a0417 C. elis Strecker, 1885 (Colias) [NEW]
NOTE: Kondla & Schmidt (in Pohl et al. 2010; Appendix) treated this taxon as a full species, and that was supported by Zhang et al. (2020).
lambillioni Dufrane, 1947 (Colias)

77a0418 C. occidentalis Scudder, 1862 (Colias) 4212
ssp. a. chrysomelas Edwards, 1877 (Colias)
shastae (Barnes & Benjamin, 1926) (Eurymus)
ssp. b. primordialis Hammond & McCorkle, 2017 (Colias)
ssp. c. occidentalis Scudder, 1862 (Colias)
alba Scott, 1986 (Colias)
cascadia Hammond & McCorkle, 2017 (Colias)
ssp. d. sullivani Hammond & McCorkle, 2003 (Colias)
ssp. e. resplendens Hammond & McCorkle, 2017 (Colias)
progenitor Hammond & McCorkle, 2017 (Colias)
ssp. f. pseudochristina Ferris, 1989 (Colias)
wasatchia Gillette, 1989 (Colias)

77a0419 C. christina Edwards, 1863 (Colias) [NEW]
NOTE: Placement here as a full species is provisional; it has been treated recently as conspecific with *C. occidentalis* (Opler 1999; Hammond & McCorkle 2003) or with *C. alexandra* (Hammond & McCorkle 2017).
ssp. a. kluanensis Ferris, 1981 (Colias)
rubromelanica Hammond & McCorkle, 2017 (Colias)
yukonensis Berger, 1986 (Colias)

ssp. b. krauthii Klots, 1935 (Colias)
ssp. c. christina Edwards, 1863 (Colias)
alberta Bowman, 1942 (Colias)
cassandra Hammond & McCorkle, 2017 (Colias)
pallida Cockerell, 1889 (Colias)
ssp. d. sacajawea Kohler, 2006 (Colias)
sabrina Hammond & McCorkle, 2017 (Colias)
ssp. e. pseudocolumbiensis Guppy & Shepard, 2001 (Colias)
ashlyea Hammond & McCorkle, 2017 (Colias)
jessica Hammond & McCorkle, 2017 (Colias)
selena Hammond & McCorkle, 2017 (Colias)
serena Hammond & McCorkle, 2017 (Colias)
ssp. f. columbiensis Ferris, 1973 (Colias)

77a0420 C. alexandra Edwards, 1863 (Colias) 4211
ssp. a. altamont Kondla & Kohler, 2006 (Colias)
ssp. b. astraea Edwards, 1872 (Colias)
ssp. c. alexandra Edwards, 1863 (Colias)
alba Strecker, 1878 (Colias)
brigitta Hammond & McCorkle, 2017 (Colias)
julia Hammond & McCorkle, 2017 (Colias)
karina Hammond & McCorkle, 2017 (Colias)
katrina Hammond & McCorkle, 2017 (Colias)
natalia Hammond & McCorkle, 2017 (Colias)
pallida Cockerell, 1889 (Colias)
parvoverna Hammond & McCorkle, 2017 (Colias)
ssp. d. altiplano Fisher & Scott, 2006 (Colias)
ssp. e. apache Ferris, 1988 (Colias)
ssp. f. edwardsii Edwards, 1870 (Colias)
emilia Edwards, 1870 (Colias)
hatui (Barnes & Benjamin, 1926) (Eurymus)
magnifica Hammond & McCorkle, 2017 (Colias)
melanoverna Hammond & McCorkle, 2017 (Colias)

77a0421 C. harfordii Edwards, 1877 (Colias) [NEW]
barbara Edwards, 1877 (Colias)
martini (Gunder, 1931) (Eurymus)
weaverae (Gunder, 1924) (Eurymus)

77a0422 C. vitabunda Hovanitz, 1943 (Colias) [NEW]
NOTE: Raised to species status as distinct from *C. philodice*, by Pollock et al. (1998) and Wheat & Watt (2008), and that arrangement is provisionally followed herein.
pallidissima Bowman, 1942 (Colias)

77a0423 C. eriphyle Edwards, 1876 (Colias) [NEW]
NOTE: Raised to species status as distinct from *C. philodice*, by Pollock et al. (1998) and Wheat & Watt (2008), and that arrangement is provisionally followed herein.
autumnalis Cockerell, 1888 (Colias)
hagenii Edwards, [1884] (Colias)
kootenai Cockle, 1910 (Colias)
laurae (Chermock, 1929) (Eurymus)
minor Dufrane, 1947 (Colias)
nigricosta (Chermock, 1929) (Eurymus)

77a0424 C. philodice Godart, 1819 (Colias) 4209
NOTE: With the elevation of *C. vitabunda* and *C. eriphyle* to full species status, subspecies are no longer recognized within *C. philodice*.
alba Chermock, 1927 (Colias)
alba Ehrmann, 1890 (Colias)
alba Pilate, 1882 (Colias)
alba Röber, 1909 (Colias)
alba Strecker, 1878 (Colias)
albida Chermock, 1928 (Colias)
albina Röber, 1909 (Colias)
albinic Edwards, [1885] (Colias)
albinic Skinner, 1898 (Colias)
anthyale (Hübner, 1823) (Zerene)
dorippe Godart, 1819 (Colias)
ehrmanni Chermock, 1927 (Colias)
hybrida Strecker, 1878 (Colias)
inversata Nakahara, 1926 (Colias)
luteitincta Wolcott, 1893 (Colias)
maria Edwards, 1885 (Colias)
melanic Edwards, [1885] (Colias)
melanic Skinner, 1898 (Colias)
minor Chermock, 1927 (Colias)
miscidice (Scudder, 1889) (Eurymus)
nig Strecker, 1878 (Colias)
nigridice (Scudder, 1889) (Eurymus)
nigrina Strecker, 1900 (Colias)
nigrofasciata Reiff, 1917 (Colias)
NOTE: Omitted from Pelham (2008, 2022).
pallidice (Scudder, 1889) (Eurymus)
plicaduta Nakahara, 1926 (Colias)
reducta Dufrane, 1947 (Colias)
rothkei Reiff, 1917 (Colias)
santes Fitch, 1854 (Colias)
serrata (Chermock, 1929) (Eurymus)
suffusa Cockerell, 1889 (Colias)
tegea Sievers, 1859 (Colias)
vernalis Scott, 1986 (Colias)
virida Strecker, 1878 (Colias)

77a0425 C. eurytheme Boisduval, 1852 (Colias) 4210
alba Röber, 1909 (Colias)
alba (aberr. of eurytheme) Strecker, 1878 (Colias)
alba (aberr. of keewaydin) Strecker, 1878 (Colias)
albina Röber, 1909 (Colias)
amphidusa Boisduval, 1852 (Colias)
ariadne Edwards, 1870 (Colias)
californiana Ménétriés, 1855 (Colias)
flava Strecker, 1878 (Colias)
fumosa Strecker, 1900 (Colias)
graeca Bang-Haas, 1927 (Colias)
graeca Verity, 1911 (Colias)
intermedia Cockerell, 1888 (Colias)
keewaydin Edwards, 1869 (Colias)
neuburgeri Geest, 1905 (Colias)
pallida Cockerell, 1887 (Colias)
pallida (form of intermedia) Cockerell, 1888 (Colias)
pallida (form of keewaydin) Cockerell, 1888 (Colias)
rudkini (Gunder, 1932) (Eurymus)
typica Cockerell, 1888 (Colias)
unicitrina (Gunder, 1924) (Eurymus)
vernalis Scott, 1986 (Colias)
xenodice Felder & Felder, 1859 (Colias)

77a0426 C. interior Scudder, 1862 (Colias) 4220
ssp. a. interior Scudder, 1862 (Colias)
alba Scott, 1986 (Colias)
laurentina (Scudder, 1876) (Eurymus)
NOTE: Grieshuber et al. (2012) determined that Scudder described this taxon as a female form of *C. philodice* but Scudder clearly discussed both sexes, only emphasizing the female differences. Hammond & McCorkle (2017) treated this as a distinct subspecies.
nepi (Barnes & Benjamin, 1926) (Eurymus)
raritus (Gunder, 1928) (Eurymus)
solivaga Edwards, 1877 (Colias)
NOTE: Omitted from Pelham (2008, 2022).
vividior Berger, 1945 (Colias)
ssp. b. carolae Hammond & McCorkle, 2017 (Colias)
ssp. c. sigridae Hammond & McCorkle, 2017 (Colias)
ssp. d. dornfeldi Hammond & McCorkle, 2017 (Colias)

77a0427 C. pelidne Boisduval & Le Conte, [1830] (Colias) 4221
ssp. a. pelidne Boisduval & Le Conte, [1830] (Colias)
alba Scott, 1986 (Colias)
labradorensis Scudder, 1862 (Colias)
NOTE: Omitted from Pelham (2008, 2022).
mira Verity, [1911] (Colias)
moeschleri Grum-Grschmaïlo, 1894 (Colias)
ssp. b. auroraborealis Hammond & McCorkle, 2017 (Colias)
ssp. c. philipi Hammond & McCorkle, 2017 (Colias)
ssp. d. pelhami Hammond & McCorkle, 2017 (Colias)

77a0428 C. palaeno (Linnaeus, 1761) (Papilio) extralim. H 4218
ssp. a. chippewa Edwards, 1870 (Colias)
canda Raineri & Carnevale, 1998 (Colias)
helena Edwards, 1863 (Colias)
kohlsaati (Gunder, 1931) (Eurymus)
ssp. b. baffinensis Ebner & Ferris, [1978] (Colias)

77a0429 C. skinneri Barnes, 1897 (Colias) [NEW]
NOTE: Raised from subspecies of *C. pelidne* by Zhang et al. (2019b).
ssp. a. skinneri Barnes, 1897 (Colias)
isni (Barnes & Benjamin, 1926) (Eurymus)
minisni (Barnes & McDunnough, 1916) (Eurymus)
neri (Barnes & Benjamin, 1926) (Eurymus)
ssp. b. hinchliffi Hammond & McCorkle, 2017 (Colias)
ssp. c. curtisi Hammond & McCorkle, 2017 (Colias)

77a0430 C. behrii Edwards, 1866 (Colias) 4219
canescens (Comstock, 1925) (Eurymus)

Genus ZERENE Hübner, [1819]
MEGONOSTOMA Reakirt, [1864]

77a0431 Z. cesonia (Stoll, 1790) (Papilio) 4224
ssp. a. cesonia (Stoll, 1790) (Papilio)
albida Vázquez, 1949 (Zerene)
centralamericana (Röber, 1909) (Maganostoma [sic])
immaculsecunda Gunder, 1928 (Zerene)
notatus (Megerle, 1803) (Papilio)
NOTE: Moved from synonymy with *Colias philodice* by Calhoun (2019a).
philippa (Fabricius, 1793) (Papilio)
rosa M'Neill, 1889 (Zerene)
NOTE: Omitted from Pelham (2022).
rosea (Röber, 1909) (Maganostoma [sic])
stainkeae (Field, 1936) (Colias)

77a0432 Z. eurydice (Boisduval, 1855) (Colias) 4225
alba (Scott, 1986) (Colias)
amorphae (Edwards, 1877) (Colias)
bernardino (Edwards, 1887) (Colias)
doudoroffi Gunder, 1932 (Zerene)
fanniae Gunder, 1924 (Zerene)
flavolineata Riddell, 1941 (Zerene)
helena (Reakirt, [1864]) (Megonostoma)
lineainita Gunder, 1928 (Zerene)
lorquini (Boisduval, 1855) (Rhodocera)
marginata Riddell, 1941 (Zerene)
masumbrosus Gunder, 1928 (Zerene)
newcombi Gunder, 1925 (Zerene)
nigrocapitata Riddell, 1941 (Zerene)
rubrosuffusa Riddell, 1941 (Zerene)
wosnesenskii (Ménétriés, 1855) (Colias)

Genus ANTEOS Hübner, [1819]
AMYNTHIA Swainson, 1831
KLOTSIUS Hemming, 1964

77a0433 A. clorinde (Godart, [1824]) (Colias) 4226
atromarginatus Vázquez, 1952 (Anteos)
godarti (Perty, 1833) (Colias)
nivifera (Fruhstorfer, 1907) (Rhodocera)
swainsonia (Swainson, 1831) (Amynthia)

77a0434 A. maerula (Fabricius, 1775) (Papilio) STRAY 4227
flava (Röber, 1909) (Gonepteryx)
gueneeana (Boisduval, 1836) (Rhodocera)
lacordairei (Boisduval, 1836) (Rhodocera)

Genus PHOEBIS Hübner, [1819]
CALLIDRYAS Boisduval & Le Conte, [1830]
COLIAS Hübner, [1819]
METURA Butler, 1873
PARURA Kirby, 1896

77a0435 P. sennae (Linnaeus, 1758) (Papilio) 4228
ssp. a. sennae (Linnaeus, 1758) (Papilio)
sennalba Brown, 1929 (Phoebis)
ssp. b. eubule (Linnaeus, 1767) (Papilio)
alba Scott, 1986 (Phoebis)
browni Field, 1936 (Phoebis)
drya (Fabricius, 1775) (Papilio)
lichas (d'Almeida, 1922) (Catopsilia)
pallida (Cockerell, 1889) (Callidryas)
rosa Scott, 1986 (Phoebis)
ssp. c. marcellina (Cramer, [1777]) (Papilio)
albescens Dufrane, 1947 (Phoebis)
fugax (d'Almeida, 1922) (Catopsilia)
giacomellii (Köhler, 1923) (Catopsilia)
hyperici (Sepp, [1832]) (Papilio)
major Dufrane, 1947 (Phoebis)
minor Dufrane, 1947 (Phoebis)
rhadia (Boisduval, 1836) (Callidryas)
schausi (Oberthür, 1912) (Callidryas)
yamana (Reakirt, [1864]) (Callidryas)

77a0436 P. philea (Linnaeus, 1763) (Papilio) 4229
ssp. a. philea (Linnaeus, 1763) (Papilio)
alamacho Scott, 1981 (Phoebis)
alba Scott, 1986 (Phoebis)
androchroma Bryk, 1953 (Phoebis)
aricye (Cramer, [1776]) (Papilio)
corday (Hübner, [1819]) (Colias)
crema Scott, 1981 (Phoebis)
inornata Dufrane, 1947 (Phoebis)
irma (Krüger, 1929) (Catopsilia)
lollia (Godart, 1819) (Colias)
melanippe (Stoll, in: Cramer, [1781]) (Papilio)
obsoleta (Niepelt, 1920) (Catopsilia)

77a0437 P. neocypris (Hübner, [1823]) (Colias) extralim.; STRAY 4232
ssp. a. virgo (Butler, 1870) (Callidryas) (stray)
alba Scott, 1986 (Phoebis)
intermedia (Butler, 1872) (Callidryas)
rubrofasciata Vázquez, 1952 (Phoebis)
ssp. b. rurina (Felder & Felder, 1861) (Callidryas) (excl.)
NOTE: Subspecies *rurina* has been reported from NA but that is erroneous; it is not known north of Mexico (Pelham 2008).

77a0438 P. argante (Fabricius, 1775) (Papilio) 4230
ssp. a. argante (Fabricius, 1775) (Papilio)
alba Scott, 1986 (Phoebis)
albante Brown, 1929 (Phoebis)
aurantia (Larrañaga, 1923) (Papilio)
cipris (Cramer, [1777]) (Papilio)
cnidia (Godart, 1819) (Colias)
cypris Hübner, [1819] (Phoebis)
volcanica (Perry, 1811) (Papilio)

77a0439 P. agarithe (Boisduval, 1836) (Callidryas) 4231
ssp. a. fisheri (Edwards, 1883) (Callidryas)
ssp. b. agarithe (Boisduval, 1836) (Callidryas)
albarithe Brown, 1929 (Phoebis)
ssp. c. maxima (Neumoegen, 1891) (Catopsilia)
alba Scott, 1986 (Phoebis)
floridensis (Röber, 1909) (Catopsilia)

Genus APHRISSA Butler, 1873

77a0440 A. statira (Cramer, [1777]) (Papilio) 4233
ssp. a. statira (Cramer, [1777]) (Papilio)
alba (Scott, 1986) (Phoebis)
evadne (Godart, 1819) (Colias)
inesa Anken & Silva, 1996 (Aphrissa)
jada (Butler, 1870) (Catopsilia)
naranja (Scott, 1981) (Phoebis)
pseudomas (Giacomelli, 1911) (Catopsilia)
stalba Brown, 1931 (Aphrissa)
ssp. b. floridensis (Neumoegen, 1891) (Catopsilia)

77a0441 A. neleis (Boisduval, 1836) (Callidryas) [NEW]
NOTE: Recorded from FL by Emmel (2007) and Warren & Calhoun (2011a, b).

77a0442 A. orbis (Poey, 1832) (Callidryas) STRAY 4234
NOTE: Known in NA from a single record from 1973 from the FL Keys (contributed by JDY).
ssp. a. orbis (Poey, 1832) (Callidryas) (stray)

Subfamily PIERINAE Swainson, 1820

Tribe ANTHOCHARIDINI Scudder, 1889

Genus ANTHOCHARIS Boisduval, Rambur, [Duménil] & Graslin, [1833]
ID INFO: Stout (2018).

Subgenus ANTHOCHARIS Boisduval, Rambur, [Duménil] & Graslin, [1833]

77a0443 A. sara Lucas, 1852 (Anthocharis) 4206
ssp. a. gunderi Ingham, 1933 (Anthocharis)
ssp. b. sara Lucas, 1852 (Anthocharis)
broweri Gunder, 1932 (Anthocharis)
corcorani Gunder, 1931 (Anthocharis)
dammersi Comstock, 1929 (Anthocharis)
flavicoloris Gunder, [1934] (Anthocharis)
mollis Wright, 1905 (Anthocharis)
pallida Scott, 1986 (Anthocharis)
reakirtii Edwards, 1869 (Anthocharis)
sara Boisduval, 1852 (Anthocharis)
sternitzkyi Gunder, 1925 (Anthocharis)
wrighti Comstock, 1924 (Anthocharis)
ssp. c. sempervirens Emmel, Emmel & Mattoon, 2008 (Anthocharis)
ssp. d. pseudothoosa Austin, 1998 (Anthocharis)

77a0444 A. julia Edwards, 1872 (Anthocharis) [NEW]
ssp. a. alaskensis Gunder, 1932 (Anthocharis)
ssp. b. flora Wright, 1892 (Anthocharis)
ssp. c. sulfuris Pelham, 2008 (Anthocharis)
columbia Scott & Kondla, 2008 (Anthocharis)
sulfuris Gunder, 1931 (Anthocharis)
ssp. d. stella Edwards, 1879 (Anthocharis)
ssp. e. browningi Skinner, 1906 (Anthocharis)
ssp. f. julia Edwards, 1872 (Anthocharis)
ssp. g. prestonorum Stout, 2012 (Anthocharis)

77a0445 A. thoosa (Scudder, 1878) (Synchloe) [NEW]
ssp. a. inghami Gunder, 1932 (Anthocharis)
duncani Gunder, 1932 (Anthocharis)
ssp. b. thoosa (Scudder, 1878) (Synchloe)
ssp. c. coriande Fisher & Scott, 2008 (Anthocharis)
ssp. d. colorado Scott & Fisher, 2008 (Anthocharis)

77a0446 A. lanceolata Lucas, 1852 (Anthocharis) 4208
ssp. a. lanceolata Lucas, 1852 (Anthocharis)
edwardsii Behr, 1869 (Anthocaris [sic])
lanceolata Boisduval, 1852 (Anthocharis)
ssp. b. australis (Grinnell, 1908) (Synchloe)
ssp. c. desertolimbus Emmel, Emmel & Mattoon, 1998 (Anthocharis)

Subgenus TETRACHARIS Grote, 1898
FALCAPICA Klots, 1930
MIDEA Herrich-Schäffer, 1867

77a0447 A. cethura Felder & Felder, 1865 (Anthocharis) 4204
ssp. a. catalina Meadows, 1937 (Anthocharis)
ssp. b. cethura Felder & Felder, 1865 (Anthocharis)
angelina Boisduval, 1869 (Anthocharis)
caliente Wright, 1905 (Anthocharis)
cooperii Behr, 1869 (Anthocaris [sic])
deserti Wright, 1905 (Anthocharis)
ssp. c. morrisoni Edwards, 1881 (Anthocharis)
ssp. d. hadromarmorata Emmel, Emmel & Mattoon, 1998 (Anthocharis)
ssp. e. mojavensis Emmel, Emmel & Mattoon, 1998 (Anthocharis)
ssp. f. pima Edwards, 1888 (Anthocharis) [4205]

77a0448 A. midea (Hübner, [1809]) (Mancipium) 4207
ssp. a. annickae dos Passos & Klots, 1969 (Anthocharis)
ssp. b. midea (Hübner, [1809]) (Mancipium)
flavida Skinner, 1917 (Anthocharis)
genutia (Fabricius, 1793) (Papilio)
lherminieri (Godart, 1819) (Pieris)
ssp. c. texana Gatrelle, 1998 (Anthocharis)

Genus EUCHLOE Hübner, [1819]
ID INFO: Back et al. (2011).
ELPHINSTONIA Klots, 1930
PHYLLOCHARIS Schatz, [1885]

77a0449 E. ausonides (Lucas, 1852) (Anthocharis) 4200
ssp. a. ausonides (Lucas, 1852) (Anthocharis)
ausonides (Boisduval, 1852) (Anthocharis)
boharti Doudoroff, 1930 (Euchloe)
flavidalis Comstock, 1924 (Euchloe)
semiflava Comstock, 1924 (Euchloe)
ssp. b. insulanus Guppy & Shepard, 2001 (Euchloe)
ssp. c. transmontana Austin & Emmel, 1998 (Euchloe)
hemiflava Field, 1936 (Euchloe)
ssp. d. coloradensis (Edwards, 1881) (Anthocharis)
montana Verity, [1911] (Euchloe)
ssp. e. palaeoreios Johnson, 1976 (Euchloe)
ssp. f. mayi Chermock & Chermock, 1940 (Euchloe)
ssp. g. ogilvia Back, 1991 (Euchloe)

77a0450 E. ochracea (Trybom, 1877) (Anthocharis) extralim.[NEW]
NOTE: We follow Korb & Bolshakov (2011) and use *E. ochracea* as the valid name for this species; see notes on misapplied names below.
ssp. a. kamchatkensis Back, 2008 (Euchloe)
ausonia of authors; (not Hübner, [1804]) (Papilio) misappl.
NOTE: YT populations attributed to the taxon *kamchatensis* have been placed by some workers as a subspecies of *E. ausonia*. However, Back (2013) has determined that they are better placed as a subspecies of *E. ochracea*. Following that definition, "true" *E. ausonia* does not occur in NA.
jakutia of authors; not Back, 1991 (Euchloe) misappl.
NOTE: Populations occurring in AK that are now attributed to *E. ochracea* were attributed to *E. ausonia jakutia* by Philip & Ferris (2016).
naina of authors; not Kozhantschikov, 1923 (Euchloe) misappl.
NOTE: Populations occurring in AK that are now attributed to *E. ochracea* were attributed to *E. ausonia naina* by Back et al. (2008), Philip & Ferris (2016) and Pohl et al. (2018).

77a0451 E. creusa (Doubleday, [1847]) (Anthocharis) 4201
ssp. a. creusa (Doubleday, [1847]) (Anthocharis)
elsa Beutenmüller, 1898 (Euchloe)

77a0452 E. olympia (Edwards, 1871) (Anthocaris [sic]) 4202
ssp. a. olympia (Edwards, 1871) (Anthocaris [sic])
ssp. b. rosa (Edwards, 1882) (Anthocharis)
anniha Ebner, 1970 (Euchloe)
ssp. c. wagneri Pavulaan, 2020 (Euchloe)
ssp. d. huron Pavulaan, 2020 (Euchloe)

77a0453 E. guaymasensis Opler, 1987 (Euchloe) [NEW]

77a0454 E. hyantis (Edwards, 1871) (Anthocaris [sic]) 4203
ssp. a. hyantis (Edwards, 1871) (Anthocaris [sic])
orientalides Verity, [1908] (Euchloe)
pseudoausonides Verity, [1909] (Euchloe)
ssp. b. andrewsi Martin, 1958 (Euchloe)

77a0455 E. lotta Beutenmüller, 1898 (Euchloe) [NEW]
ssp. a. lotta Beutenmüller, 1898 (Euchloe)
ssp. b. belioides Verity, [1909] (Euchloe)
pumilio Strand, 1915 (Euchloe)

Tribe PIERINI Swainson, 1820

Subtribe APPIADINA Kuznetsov, 1929

Genus GLUTOPHRISSA Butler, 1887
ID INFO (partial): Zhang et al. (2022d)
ANDROPODUM Scudder, 1875

77a0456 G. drusilla (Cramer, [1777]) (Papilio) extralim. 4190
ssp. a. noroesta Grishin, 2022 (Glutophrissa)
NOTE: Zhang et al. (2022d) recognized TX populations as a new subspecies, distinct from subspecies *tenuis* (Lamas, 1981).
ssp. b. neumoegenii (Skinner, 1894) (Tachyris)
hollandi (Röber, 1908) (Appias)

Subtribe APORIINA Chapman, 1895

Genus MELETE Swainson, 1831
DAPTONOURA Butler, [1870]

77a0457 M. lycimnia (Cramer, [1777]) (Papilio) extralim. [NEW]
ssp. a. isandra (Boisduval, 1836) (Pieris)
kleta Fruhstorfer, 1907 (Melete)

Genus NEOPHASIA Behr, 1869

77a0458 N. menapia (Felder & Felder, 1859) (Pieris) 4187
ssp. a. tehachapina Emmel, Emmel & Mattoon, 1998 (Neophasia)
ssp. b. menapia (Felder & Felder, 1859) (Pieris)
nigracosta Comstock, 1918 (Neophasia)
ninonia (Boisduval, 1869) (Pieris)
ssp. c. melanica Scott, 1981 (Neophasia)
ssp. d. tau (Scudder, 1861) (Pieris)
suffusa (Stretch, 1882) (Pieris)
ssp. e. magnamenapia Austin, 1998 (Neophasia)

77a0459 N. terlooii Behr, 1869 (Neophasia) [NEW]
epyaxa Strecker, 1900 (Neophasia)
lyceas of authors; (not Godman & Salvin, 1889) (Archonias) misappl.
NOTE: Early records of this taxon (now a synonym of *Charonias eurytele dismorphites* (Butler, 1872) in NA refer to *N. terlooii* (Pelham 2008).
princetonia (Barnes, 1900) (Archonias)
terlootii; Miller & Brown, 1983 (Neophasia) missp.[4188]

Genus ARCHONIAS Hübner, [1829]
NOTE: Zhang et al. (2021) determined that *Catasticta* is a junior subjective synonym of *Archonias*. This is supported by Wahlberg et al. (2014) and Padrón (2014).
ARCHONOIA Reissinger, 1972
CATASTICTA Butler, 1870
CLIO Herrich-Schäffer, [1858]
EUTERPE Swainson, 1831
HESPEROCHOIA Eitschberger & Racheli, 1998

HESPEROCHOIA Reissinger, 1972
LEODONTOIA Eitschberger & Racheli, 1998
LEODONTOIA Reissinger, 1972
PIERINOIA Reissinger, 1972

77a0460 A. nimbice (Boisduval, 1836) (Euterpe) 4189
ssp. a. nimbice (Boisduval, 1836) (Euterpe)

Subtribe PIERINA Swainson, 1820

Genus ASCIA Scopoli, 1777

77a0461 A. monuste (Linnaeus, 1764) (Papilio) 4198
ssp. a. monuste (Linnaeus, 1764) (Papilio)
albusta (Sepp, [1851]) (Papilio)
crameri Holland, 1931 (Ascia)
feronia (Stephens, 1828) (Pontia)
heliades (Billberg, 1820) (Cepora)
ssp. b. phileta (Fabricius, 1775) (Papilio)
cleomes (Boisduval & Le Conte, [1830]) (Pieris)
nigra Scott, 1981 (Ascia)
ssp. c. eubotea (Godart, 1819) (Pieris)
evonima (Boisduval, 1836) (Pieris)
joppe (Boisduval, 1836) (Pieris)
vallei (Boisduval, 1836) (Pieris)
ssp. d. raza Klots, 1930 (Ascia) (excl.)
NOTE: This subspecies was reported from NA in error by Holland (1931); it is restricted to Baja California, Mexico (Pelham 2008).

Genus GANYRA Billberg, 1820

77a0462 G. josephina (Godart, 1819) (Pieris) extralim. 4199
ssp. a. josepha (Salvin & Godman, 1868) (Pieris)
gervasia (Fruhstorfer, 1907) (Pieris)
protasia (Fruhstorfer, 1907) (Pieris)
77a0463 G. howarthi (Dixey, 1915) (Pieris) [NEW]
kuschei (Schaus, 1920) (Pieris)

Genus LEPTOPHOBIA Butler, 1870

77a0464 L. aripa (Boisduval, 1836) (Pieris) extralim. [NEW]
ssp. a. elodia (Boisduval, 1836) (Pieris)

Genus ITABALLIA Kaye, 1904

77a0465 I. demophile (Linnaeus, 1763) (Papilio) extralim. [NEW]
ssp. a. centralis Joicey & Talbot, 1928 (Itaballia)
magna (Fruhstorfer, 1907) (Perrhybris)

Genus PIERIBALLIA Klots, 1933
NEOGEIA Verity, 1947

77a0466 P. viardi (Boisduval, 1836) (Pieris) [NEW]
ssp. a. viardi (Boisduval, 1836) (Pieris)
habra (Doubleday, 1846) (Pieris)
intermedia (Vázquez, 1954) (Itaballia)
laogore (Godman & Salvin, 1889) (Pieris)

Genus PONTIA [Fabricius, in: Illiger], 1807
NOTE: Zhang et al. (2021) determined that *Reliquia* is a synonym of *Pontia*, elevated *Pontieuchloia* to subgenus, and described *Sisymbria*.

Subgenus PONTIA [Fabricius, in: Illiger], 1807
LEUCOCHLOE Röber, 1907
MANCIPIUM Hübner, [1807]
MANCIPIUM Stephens, 1827
PARAPIERIS Nicéville, 1897
PONTIA [Illiger], 1807
RELIQUIA Ackery, 1975
SYNCHLOE Hübner, 1818

77a0467 P. protodice (Boisduval & Le Conte, [1830]) (Pieris) 4193
nasturtii (Edwards, 1864) (Pieris)
vernalis (Edwards, 1864) (Pieris)
77a0468 P. occidentalis (Reakirt, 1866) (Pieris) 4194
callidice of authors; (not Hübner, [1800]) (Papilio) misappl.
NOTE: Reported from NA under an alternative taxonomic hypothesis (Scott 1986). As currently defined, NA populations are *P. occidentalis*; *P. callidice* is restricted to the Old World (Pelham 2008).
ssp. a. occidentalis (Reakirt, 1866) (Pieris)
calyce (Edwards, 1870) (Pieris)
ssp. b. nelsoni (Edwards, 1883) (Pieris)
boreoasiatica Kosterin & Gorbunov, 2007 (Pontia)

Subgenus SISYMBRIA Grishin, 2021

77a0469 P. sisymbrii (Boisduval, 1852) (Pieris) 4192
ssp. a. sisymbrii (Boisduval, 1852) (Pieris)
flava (Edwards, 1883) (Pieris)
ssp. b. nigravenosa Austin & Emmel, 1998 (Pontia)
ssp. c. transversa Holland, 1995 (Pontia)
transversa (Barnes & Benjamin, 1926) (Ascia)
ssp. d. elivata (Barnes & Benjamin, 1926) (Ascia)
ssp. e. nordini (Johnson, 1977) (Pieris)
ssp. f. flavitincta (Comstock, 1924) (Pieris)
ssp. g. beringiensis Guppy & Kondla, 2001 (Pontia)

Subgenus PONTIEUCHLOIA Verity, 1929

77a0470 P. beckerii (Edwards, 1871) (Pieris) 4191
chloridice of authors; (not Hübner, [1813]) (Papilio) misappl.
NOTE: Reported from NA under an alternative taxonomic hypothesis (Scott 1986). As currently defined, NA populations are *P. beckerii*; *P. chloridice* is restricted to Asia (Pelham 2008).
gunderi (Ingham, 1933) (Ascia)
pseudochloridice (McDunnough, 1928) (Pieris)

Genus PIERIS Schrank, 1801
ANDROPODUM Hübner, 1822
ARTOGEIA Verity, 1947
DANAUS Oken, 1815
GANORIS Dalman, 1816
MANCIPIUM Hübner, [1806]
PIERIS Latreille, 1804
TACHYPTERA Berge, 1842

Pieris rapae group Robbins & Henson, 1986

77a0471 P. rapae (Linnaeus, 1758) (Papilio) I 4197
NOTE: Introduced from Europe to NA, first found in NA in QC in 1860. Most of the Palaearctic synonymy is not included.
ssp. a. rapae (Linnaeus, 1758) (Papilio)
aestivus Verity, 1913 (Pieris)
immaculata Cockerell, 1889 (Pieris)
immaculata Selys-Longchamps, 1857 (Pieris)
immaculata Skinner & Aaron, 1889 (Pieris)
metra (Stephens, 1827) (Pontia)
minor (Costa, [1836]) (Pontia)
novangliae (Scudder, 1872) (Ganoris)
yreka Reakirt, 1866 (Pieris)
77a0472E P. brassicae (Linnaeus, 1758) (Papilio) EXCL. [NEW]
NOTE: This European species has been accidentally introduced to NA, but no persistent colonies have established (Pelham 2008).

Pieris napi group Robbins & Henson, 1986

77a0473 P. angelika Eitschberger, [1984] (Pieris) [NEW]
77a0474 P. oleracea (Harris, 1829) (Pontia) [NEW]
ssp. a. oleracea (Harris, 1829) (Pontia)
aestiva Edwards, 1881 (Pieris)
arctica of authors; not Verity, [1911] (Pieris) misappl.
NOTE: This subspecies of the European species *P. napi* was reported in error from NA by Miller & Brown (1981).
casta (Kirby, 1837) (Pontia)
cruciferarum Boisduval, 1836 (Pieris)
hyemalis Edwards, 1881 (Pieris)
napi of authors; (not Linnaeus, 1758) (Papilio) misappl. [4195]
NOTE: This Old World name was widely used in the historical NA literature.
postoleracea Eitschberger, [1984] (Pieris)
virginiensis Edwards, 1881 (Pieris)
ssp. b. frigida Scudder, 1861 (Pieris)
acadica Edwards, 1881 (Pieris)
anteacadica Eitschberger, [1984] (Pieris)
borealis (Grote, 1873) (Ganoris)
ekisi Eitschberger, [1984] (Pieris)
pseudoleracea Verity, [1908] (Pieris)
vivida Verity, [1911] (Pieris)
77a0475 P. marginalis Scudder, 1861 (Pieris) [NEW]
ssp. a. pseudobryoniae Barnes & McDunnough, 1916 (Pieris)
browni Eitschberger, [1984] (Pieris)

pseudobryoniae Verity, [1908] (Pieris)
ssp. b. shapiroi Eitschberger, [1984] (Pieris)
ssp. c. hulda Edwards, 1869 (Pieris)
ssp. d. meckyae Eitschberger, [1984] (Pieris)
passosi Warren, 1968 (Pieris)
ssp. e. guppyi Eitschberger, [1984] (Pieris)
postguppyi Eitschberger, [1984] (Pieris)
ssp. f. tremblayi Eitschberger, [1984] (Pieris)
ssp. g. reicheli Eitschberger, [1984] (Pieris)
postreicheli Eitschberger, [1984] (Pieris)
ssp. h. marginalis Scudder, 1861 (Pieris)
flava (aberr. of oleracea) Edwards, 1881 (Pieris)
pallida Scudder, 1861 (Pieris)
ssp. i. sequoia Emmel, Emmel & Mattoon, 1998 (Pieris)
ssp. j. venosa Scudder, 1861 (Pieris)
flava (aberr. of venosa) Edwards, 1881 (Pieris)
ssp. k. castoria Reakirt, 1866 (Pieris)
cottlei Gunder, 1925 (Pieris)
iberidis Boisduval, 1869 (Pieris)
microstriata Comstock, 1924 (Pieris)
nasturtii Boisduval, 1869 (Pieris)
resedae Boisduval, 1869 (Pieris)
ssp. l. ziegleri Eitschberger, 1991 (Pieris)
ssp. m. pallidissima Barnes & McDunnough, 1916 (Pieris)
antepallidissima Eitschberger, [1984] (Pieris)
ssp. n. macdunnoughii Remington, 1954 (Pieris)
postmcdunnoughii Eitschberger, [1984] (Pieris)
pseudonapi Barnes & McDunnough, 1916 (Pieris)
ssp. o. mogollon Burdick, 1942 (Pieris)
postmogollon Eitschberger, [1984] (Pieris)
warreni dos Passos, 1965 (Pieris)
ssp. p. siblanca Grishin, 2022 (Pieris)
NOTE: Described in Zhang et al. (2022d).

77a0476 P. virginiensis Edwards, 1870 (Pieris) 4196
ssp. a. virginiensis Edwards, 1870 (Pieris)
ssp. b. hyatti Eitschberger, [1984] (Pieris)

73. Family LYCAENIDAE [Leach, 1815] (gossamer-wings: coppers, hairstreaks, and blues)

by Jonathan P. Pelham & Gregory R. Pohl

Lycaenids are small to medium-sized butterflies, with wingspans of about 20 to 50 mm. They are often brightly colored, frequently in iridescent blues, greens, and coppery tones. Many have small, hairlike tails on the hindwings. The forelegs of male adults are reduced in length, with fused tarsal segments and no claws, but the forelegs of females have a normal structure and are fully functional. The larvae are oval, flattened, and grublike; many have glands that produce sweet liquids. The larvae feed on many groups of dicotyledonous plants. Some larvae are symbiotic with ants, which protect them from predators in exchange for the honeydew from their abdominal glands.

The family contains about 5,200 named species worldwide including 180 species in the Nearctic region. The Lycaenidae were included in the Nearctic butterfly catalog published online recently by Pelham (2022), and the classification in the current work is almost identical.

Subfamily MILETINAE Reuter, 1896 (1886)

NOTE: The family-group name Miletinae (applied at various levels) has long been accepted as the proper name for this taxon, even though Gerydinae Doherty, 1886 is senior (ICZN Code Article 40).

Tribe MILETINI Reuter, 1896 (1886)

Subtribe SPALGINA Toxopeus, 1929

Genus FENISECA Grote, 1869

77a0477 F. tarquinius (Fabricius, 1793) (Hesperia) 4249
ssp. a. tarquinius (Fabricius, 1793) (Hesperia)
crataegi (Boisduval & Le Conte, [1835])
(Polyommatus)
porsenna (Scudder, 1863) (Polyommatus)
suffusa Dean, 1918 (Feniseca)
ssp. b. novascotiae McDunnough, 1935 (Feniseca)

Subfamily LYCAENINAE [Leach], [1815]

Tribe LYCAENINI [Leach], [1815]

Genus LYCAENA [Fabricius, in: Illiger], 1807

Subgenus LYCAENA [Fabricius, in: Illiger], 1807
LYCIA Sodoffsky, 1837
MIGONITIS Sodoffsky, 1837
RUMICIA Tutt, 1906

77a0478 L. hypophlaeas (Boisduval, 1852) (Polyommatus) [NEW]
NOTE: Populations in NA were historically treated as subspecies of the Old World species *L. phlaeas* (Linnaeus), but were elevated to species status as *L. hypophlaeas* by Zhang et al. (2022d).
phlaeas of authors; (not Linnaeus, 1761) (Papilio)
misappl. *[4251]*
ssp. a. hypophlaeas (Boisduval, 1852) (Polyommatus)
adrienne (Maynard, 1891) (Chrysophanus)
americana Harris, 1862 (Lycaena)
bacchus (Scudder, 1889) (Heodes)
banksi (Watson & Comstock, 1920) (Heodes)
caeca (Reiff, 1913) (Heodes)
fasciata Strecker, 1878 (Lycaena)
fulliolus (Hulst, 1886) (Chrysophanus)
fulvus (Rummel, 1929) (Heodes)
neui (Rummel, 1929) (Heodes)
obliterata (Scudder, 1889) (Heodes)
octomaculata (Dean, 1918) (Chrysophanus)
ssp. b. feildeni (M'Lachlan, 1878) (Chrysophanus)
polaris of authors; not Courvoisier, 1911 (Lycaena)
misappl.
NOTE: Scott (1986) used this extralimital subspecies name based on a previous taxonomic arrangement; "true" *L. phlaeas polaris* is restricted to the Old World (Pelham 2008).
ssp. c. arethusa (Dod, 1907) (Chrysophanus)
ssp. d. weberi Kohler, 2007 (Lycaena)
ssp. e. arctodon Ferris, 1974 (Lycaena)
ssp. f. shields Kemal & Koçak, 2007 (Lycaena)
alpestris Emmel & Pratt, 1998 (Lycaena)

Subgenus ALCIPHRONIA Koçak, 1992
NOTE: Zhang et al (2022d) determined that *Alciphronia* is a subgenus of *Lycaena* and that *L. cupreus* belongs to it.

77a0479 L. cupreus (Edwards, 1870) (Chrysophanus) 4252
ssp. a. lapidicola Emmel & Pratt, 1998 (Lycaena)
maculinita (Gunder, 1926) (Heodes)
ssp. b. cupreus (Edwards, 1870) (Chrysophanus)
artemisia Scott, 1981 (Lycaena)
ssp. c. henryae (Cadbury, 1937) (Chrysophanus)
macdunnoughi; dos Passos, 1964 (Lycaena) emend.
mcdunnoughi Gunder, 1927 (Lycaena)
ssp. d. snowi (Edwards, [1881]) (Chrysophanus)

Subgenus HEODES Dalman, 1816 (excl.)

77a0480E L. tityrus (Poda, 1761) (Papilio) EXCL. [NEW]
NOTE: The record of *L. hypoxanthe* (Kirby) (a synonym of *L. tityrus*) from "Canada" by Barnes & Benjamin (1926) is based on a misidentification (Pelham 2008). *L. tityrus* is a European species.
hypoxanthe (Kirby, 1862) (Chrysophanus) (excl.)

Genus THARSALEA Scudder, 1876
NOTE: This strictly New World group of coppers was defined by de Jong & van Dorp (2006) but they did not assign names. Zhang et al. (2020) confirmed this and employed *Tharsalea* as the senior name. Klots (1936) gave *Tharsalea* precedence over all other names as first reviser.

Subgenus EPIDEMIA Scudder, 1876
HELLOLYCAENA Koçak, 1983
HYLLOLYCAENA Miller & Brown, 1979

77a0481 T. hyllus (Cramer, [1775]) (Papilio) 4256
thoe (Guérin-Méneville, [1832]) (Polyommatus)
wormsbacheri (Gunder, 1927) (Lycaena)
wyatti (Gunder, 1927) (Lycaena)
77a0482 T. gorgon (Boisduval, 1852) (Polyommatus) 4255
ssp. a. gorgon (Boisduval, 1852) (Polyommatus)
ssp. b. micropunctata (Emmel & Pratt, 1998) (Lycaena)
ssp. c. jacquelineae (Emmel & Pratt, 1998) (Lycaena)
ssp. d. dorothea (Emmel & Pratt, 1998) (Lycaena)
77a0483 T. heteronea (Boisduval, 1852) (Lycaena) 4259
ssp. a. heteronea (Boisduval, 1852) (Lycaena)
ssp. b. northi (Emmel & Pratt, 1998) (Lycaena)
ssp. c. submaculata (Emmel & Pratt, 1998) (Lycaena)
ssp. d. clara (Edwards, 1877) (Lycaena)
ssp. e. austin (Kemal & Koçak, 2007) (Lycaena)
rutila (Austin, 1998) (Lycaena)
ssp. f. rava (Austin, 1998) (Lycaena)
ssp. g. klotsi (Field, 1936) (Lycaena)
ssp. h. gravenotata (Klots, 1930) (Lycaena)
coloradensis (Gunder, 1925) (Heodes)
77a0484 T. epixanthe (Boisduval & Le Conte, [1835]) (Polyommatus) 4260
ssp. a. epixanthe (Boisduval & Le Conte, [1835]) (Polyommatus)
ssp. b. phaedrus (Hall, 1924) (Heodes)
amicetus (Holland, 1931) (Chrysophanus)
ssp. c. michiganensis (Rawson, 1948) (Lycaena)

77a0485 T. nivalis (Boisduval, 1869) (Polyommatus) 4263
ssp. a. nivalis (Boisduval, 1869) (Polyommatus)
ianthe (Edwards, 1871) (Chrysophanus)
ssp. b. bichroma (Emmel & Pratt, 1998) (Lycaena)
ssp. c. warnermontana (Emmel & Pratt, 1998) (Lycaena)
ssp. d. praetexta (Austin, 1998) (Lycaena)
ssp. e. browni (dos Passos, 1938) (Lycaena)

77a0486 T. mariposa (Reakirt, 1866) (Polyommatus) 4264
NOTE: The subspecies arrangement of Pyle & Hammond (2018) is followed here.
ssp. a. mariposa (Reakirt, 1866) (Polyommatus)
zeroe (Boisduval, 1869) (Polyommatus)
ssp. b. ximena (Pyle & Hammond, 2018) (Lycaena)
ssp. c. marya (Pyle & Hammond, 2018) (Lycaena)
ssp. d. cascadia (Pyle & Hammond, 2018) (Lycaena)
ssp. e. thea (Pyle & Hammond, 2018) (Lycaena)
ssp. f. penroseae (Field, 1938) (Lycaena)
ssp. g. sperlingi (Pyle & Hammond, 2018) (Lycaena)
ssp. h. iridescens (Pyle & Hammond, 2018) (Lycaena)
ssp. i. charlottensis (Holland, 1930) (Chrysophanus)
ssp. j. junia (Pyle & Hammond, 2018) (Lycaena)
ssp. k. candia (Pyle & Hammond, 2018) (Lycaena)
ssp. l. makah (Pyle & Hammond, 2018) (Lycaena)

77a0487 T. helloides (Boisduval, 1852) (Polyommatus) 4262
castro (Reakirt, 1866) (Polyommatus)
NOTE: ICZN (2010) Opinion 2261 designated a neotype for *castro* such that it represented *T. helloides*, and it is treated as such herein. It was considered a subspecies of *T. dorcas* by Pelham (2008), and a synonym of *T. helloides* in Pelham (2022). It was treated as a full species by Pohl et al. (2010), following Scott et al. (2006).
sternitzkyi (Gunder, 1927) (Lycaena)

77a0488 T. dorcas (Kirby, 1837) (Lycaena) 4261
NOTE: There is no consensus on relationships between taxa in the *Lycaena dorcas* complex (e.g., Ferris 1977; Scott 1979, 2006, 2008). The taxon *florus* was considered a subspecies of *T. dorcas* by Pelham (2008) and that is maintained provisionally herein pending further research. It seems clear that "*florus*" is not conspecific with *dorcas* but not at all clear that *helloides* and *florus* are different species despite reports of sympatry.
ssp. a. claytoni (Brower, 1940) (Lycaena)
ssp. b. michuron (Scott, 2006) (Lycaena)
ssp. c. dorcas (Kirby, 1837) (Lycaena)
anthelle (Doubleday, 1847) (Polyommatus)
ssp. d. arcticus (Ferris, 1977) (Epidemia)
ssp. e. florus (Edwards, [1884]) (Chrysophanus)
ssp. f. megaloceras (Ferris, 1977) (Epidemia)
hulbirti (Field, 1936) (Lycaena)
sternitzkyi (Field, 1936) (Lycaena)
ssp. g. caldera (Scott & Kondla, 2017) (Lycaena)
ssp. h. sangremar (Scott, 2008) (Lycaena)
williamsi (Gunder, 1927) (Lycaena)

77a0489 T. dospassosi (McDunnough, 1940) (Lycaena) [NEW]

Subgenus CHALCERIA Scudder, 1876
GAEIDES Scudder, 1876

77a0490 T. rubidus (Behr, 1866) (Chrysophanus) 4257
ssp. a. monachensis (Johnson & Balogh, 1977) (Lycaena)
ssp. b. incana (Austin, 1998) (Lycaena)
ssp. c. rubidus (Behr, 1866) (Chrysophanus)
ssp. d. duofascies (Johnson & Balogh, 1977) (Lycaena)
ssp. e. perkinsorum (Johnson & Balogh, 1977) (Lycaena)
ssp. f. sirius (Edwards, 1871) (Chrysophanus)
ssp. g. longi (Johnson & Balogh, 1977) (Lycaena)
ssp. h. ferrisi (Johnson & Balogh, 1977) (Lycaena) [4258]

77a0491 T. dione (Scudder, 1868) (Chrysophanus) [NEW]
gibboni (Gunder, 1927) (Lycaena)

77a0492 T. editha (Mead, 1878) (Chrysophanus) [NEW]
edith; (Miller & Brown, 1983) (Gaeides) missp. [4254]
ssp. a. editha (Mead, 1878) (Chrysophanus)
vanduzeei (Gunder, 1927) (Lycaena)
ssp. b. pseudonexa (Emmel & Pratt, 1998) (Lycaena)
ssp. c. obscuramaculata (Austin, 1989) (Lycaena)
nevadensis (Austin, 1984) (Lycaena)
ssp. d. vurali (Koçak, 1984) (Lycaena)
meadi (Field, 1936) (Lycaena)
montana (Field, 1936) (Lycaena)

77a0493 T. xanthoides (Boisduval, 1852) (Polyommatus) 4253
ssp. a. nigromaculata (Emmel & Pratt, 1998) (Lycaena)
ssp. b. xanthoides (Boisduval, 1852) (Polyommatus)
gunderi (Rudkin, 1933) (Lycaena)
luctuosa (Watson & Comstock, 1920) (Heodes)
ssp. c. obsolescens (Emmel & Pratt, 1998) (Lycaena)

Subgenus THARSALEA Scudder, 1876

77a0494 T. arota (Boisduval, 1852) (Polyommatus) 4250
ssp. a. arota (Boisduval, 1852) (Polyommatus)
ssp. b. virginiensis (Edwards, 1870) (Chrysophanus)
ssp. c. nubila Comstock, 1926 (Tharsalea)
ssp. d. schellbachi (Tilden, 1955) (Lycaena)

Subgenus HERMELYCAENA Miller & Brown, 1979

77a0495 T. hermes (Edwards, 1870) (Chrysophanus) 4265
delsud (Wright, 1905) (Chrysophanus) emend.

Subfamily THECLINAE Swainson, [1831] 1820

NOTE: The family-group name Theclinae (applied at various levels) has long been accepted as the proper name for this taxon, even though Zephyrinae Billberg, 1820 is senior.

Tribe THECLINI Swainson, [1831] 1820

Genus HYPAUROTIS Scudder, 1876
NOTE: Zhang et al. (2020) synomized *Habrodais* and four Palaearctic genera under *Hypaurotis*, giving the latter priority over *Habrodais* as first reviser. However, that synonomy was premature as there are over a dozen related Palaearctic genera unexamined. The matter awaits further research and we retain *Habrodais* as a distinct genus.

77a0496 H. crysalus (Edwards, 1873) (Thecla) 4266
ssp. a. crysalus (Edwards, 1873) (Thecla)
ssp. b. intermedia Austin, 1998 (Hypaurotis)
ssp. c. citima (Edwards, 1881) (Thecla)

Genus HABRODAIS Scudder, 1876
NOTE: See note under *Hypaurotis*.

77a0497 H. grunus (Boisduval, 1852) (Thecla) 4267
ssp. a. lorquini Field, 1938 (Habrodais)
chloris Field, 1938 (Habrodais)
ssp. b. grunus (Boisduval, 1852) (Thecla)
ssp. c. herri Field, 1938 (Habrodais)

Tribe EUMAEINI Doubleday, 1847

NOTE: Subtribe classification follows Robbins et al. (2022).

Subtribe CALLOPHRYIDINA Tutt, 1907

Genus OCARIA Clench, 1970
ARASES Johnson, 1992
GALBA Johnson, 1992
LAMASA Johnson, 1992
VARIEGATTA Johnson, 1992

77a0498 O. ocrisia (Hewitson, 1868) (Thecla) 4289
lita (Hayward, 1949) (Thecla)
peruviana (Ershov, 1876) (Thecla)
zora (Hewitson, 1869) (Thecla)

Genus CYANOPHRYS Clench, 1961
ANTEPHRYS Johnson, Eisele & MacPherson, 1993
APOPHRYS Johnson & Le Crom, 1997
MESACYANOPHRYS d'Abrera, 1995
MESOCYANOPHRYS d'Abrera, 1995
MESOCYANOPHRYS Johnson & Le Crom, 1997
PARACYANOPHRYS d'Abrera, 1995
PLESIOCYANOPHRYS Johnson, Eisele & MacPherson, 1993

77a0499 C. goodsoni (Clench, 1946) (Thecla) 4309

77a0500 C. herodotus (Fabricius, 1793) (Hesperia) STRAY [NEW]
amyntoides d'Abrera, 1995 (Cyanophrys)
amyntoides Johnson & Le Crom, 1997 (Cyanophrys)
amyntor of authors; (not Cramer, [1775]) (Papilio) misid.
NOTE: A record of *C. amyntor* from TX, which was the basis for inclusion of that species in the NA fauna by Poole & Gentili (1996), has been redetermined as *C. herodotus* (Pelham 2008).
brazilensis (Johnson & Kruse, 1997) (Plesiocyanophrys)
braziliensis d'Abrera, 1995 (Cyanophrys)

circumcyanophrys d'Abrera, 1995 (Cyanophrys)
descimoni Johnson & Le Crom, 1997 (Cyanophrys)
detesta (Clench, 1946) (Thecla)
lucania (Hewitson, 1868) (Thecla)
sicrana (Jones, 1912) (Thecla)
sicranoides d'Abrera, 1995 (Cyanophrys)
sullivani Johnson & Kruse, 1997 (Cyanophrys)

77a0501 C. longula (Hewitson, 1868) (Thecla) UNVER. [NEW]
NOTE: This species has been reported from AZ and TX based on sight records, and listed by Poole & Gentili (1996), but no verified NA records are known. Additionally, the synonym *pastor* was reported from NA by Barnes & McDunnough (1913). *C. longula* was excluded from the NA fauna by Pelham (2008).
pastor (Butler & Druce, 1872) (Strymon)

77a0502 C. miserabilis (Clench, 1946) (Thecla) 4308
eupatorium Johnson & Kruse, 1997 (Cyanophrys)
simplex (Clench, 1981) (Callophrys)

Genus CALLOPHRYS Billberg, 1820
NOTE: Zhang et al. (2021) reviewed this genus and proposed several genus level changes. These are adopted herein.

Subgenus CISINCISALIA Johnson, 1992
LORANTHOMITOURA Ballmer & Pratt, 1992

77a0503 C. spinetorum (Hewitson, 1867) (Thecla) 4310
ssp. a. spinetorum (Hewitson, 1867) (Thecla)
cuyamaca (Wright, 1922) (Miltoura [sic])
ninus (Edwards, 1871) (Thecla)
ssp. b. millerorum Clench, 1981 (Callophrys) (stray)
NOTE: One specimen of this taxon was recorded from Otero County, NM, by Johnson (1985). It is unclear whether this represents a stray into the USA, or an extreme of the local range of individual variation.

77a0504 C. johnsoni (Skinner, 1904) (Thecla) 4311

Subgenus MITOURA Scudder, 1872 emend.
MITOURI; Scudder, 1872 orig. missp.

77a0505 C. muiri (Edwards, 1881) (Thecla) [NEW]

77a0506 C. loki (Skinner, 1907) (Thecla) 4317
NOTE: Pratt et al. (2011) united *loki* and *thornei* as conspecific.
ssp. a. loki (Skinner, 1907) (Thecla)
ssp. b. thornei (Brown, 1983) (Mitoura)

77a0507 C. gryneus (Hübner, [1819]) (Lycus) 4318
ssp. a. sweadneri (Chermock, 1945) (Mitoura)
ssp. b. smilacis (Boisduval & Le Conte, [1835]) (Thecla)
ssp. c. gryneus (Hübner, [1819]) (Lycus)
auburniana (Harris, 1862) (Thecla)
damastus (Godart, [1824]) (Polyommatus)
damon (Stoll, in: Cramer, [1782]) (Papilio)
octoscripta (Buchholz, 1951) (Mitoura)
patersonia (Brehme, 1907) (Thecla)
ssp. d. castalis (Edwards, 1871) (Thecla)
brehmei (Barnes & Benjamin, 1923) (Thecla)
discoidalis (Skinner, 1897) (Thecla)
ssp. e. siva (Edwards, 1874) (Thecla) [4316]
clenchi (Johnson, 1988) (Mitoura)
ssp. f. chalcosiva Clench, 1981 (Callophrys)
ssp. g. nelsoni (Boisduval, 1869) (Thecla) [4315]
acuminata Johnson, 1976 (Callophrys)
exoleta (Edwards, 1881) (Thecla)
ssp. h. plicataria Johnson, 1976 (Callophrys)
barryi Johnson, 1976 (Callophrys) [4313]
ssp. i. rosneri Johnson, 1976 (Callophrys) [4312]
byrnei Johnson, 1976 (Callophrys) [4314]
ssp. j. juniperaria (Comstock, 1925) (Mitoura)
ssp. k. mansfieldi (Tilden, 1951) (Mitoura)

77a0508 C. hesseli (Rawson & Ziegler, 1950) (Mitoura) 4319
ssp. a. hesseli (Rawson & Ziegler, 1950) (Mitoura)
ssp. b. angulata (Gatrelle, 2001) (Mitoura)

Subgenus INCISALIA Scudder, 1872
DECIDUPHAGUS Johnson, 1992
SANDIA Clench & Ehrlich, 1960
XAMIA Clench, 1961

77a0509 C. eryphon (Boisduval, 1852) (Thecla) 4329
ssp. a. purpurascens (Austin & Emmel, 1998) (Incisalia)
ssp. b. sheltonensis (Chermock & Frechin, [1949]) (Incisalia)
ssp. c. eryphon (Boisduval, 1852) (Thecla)
ssp. d. pallescens (Austin, 1998) (Incisalia)
ssp. e. fusca (Austin, 1998) (Incisalia)

77a0510 C. niphon (Hübner, [1819] 1793) (Lycus) 4328
ssp. a. niphon (Hübner, [1819] 1793) (Lycus)
plautus (Fabricius, 1793) (Hesperia)
ssp. b. clarki (Freeman, 1938) (Incisalia)

77a0511 C. lanoraieensis (Sheppard, 1934) (Incisalia) [NEW]
lanaoriaeensis; (Miller & Brown, 1983) (Incisalia) missp. [4327]

77a0512 C. irus (Godart, [1824]) (Polyommatus) 4325
ssp. a. irus (Godart, [1824]) (Polyommatus)
balteata (Scudder, 1889) (Incisalia)
ssp. b. arsace (Boisduval & Le Conte, [1835]) (Thecla)
ssp. c. hadros (Cook & Watson, 1909) (Incisalia)

77a0513 C. henrici (Grote & Robinson, 1867) (Thecla) 4326
ssp. a. henrici (Grote & Robinson, 1867) (Thecla)
ssp. b. viridissima (Pavulaan, 1998) (Incisalia)
ssp. c. yahwehus (Gatrelle, 1999) (Deciduphagus)
ssp. d. margaretae (dos Passos, 1943) (Incisalia)
ssp. e. turneri (Clench, 1943) (Incisalia)
ssp. f. solatus (Cook & Watson, 1909) (Incisalia)

77a0514 C. polios (Cook & Watson, 1907) (Incisalia) 4324
ssp. a. polios (Cook & Watson, 1907) (Incisalia)
davisi (Watson & Comstock, 1920) (Incisalia)
ssp. b. obscurus (Ferris & Fisher, 1973) (Incisalia)
ssp. c. maritima (Emmel, Emmel & Mattoon, 1998) (Incisalia)

77a0515 C. xami (Reakirt, [1867]) (Thecla) 4320
ssp. a. xami (Reakirt, [1867]) (Thecla)
blenina (Hewitson, 1868) (Thecla)
ssp. b. texami Clench, 1981 (Callophrys)

77a0516 C. mossii (Edwards, 1881) (Thecla) [NEW]
ssp. a. schryveri (Cross, 1937) (Incisalia)
ssp. b. mossii (Edwards, 1881) (Thecla)
ssp. c. marinensis (Emmel, Emmel & Mattoon, 1998) (Incisalia)
ssp. d. bayensis Brown, 1969 (Callophrys)
ssp. e. doudoroffi (dos Passos, 1940) (Incisalia)
ssp. f. hidakupa (Emmel, Emmel & Mattoon, 1998) (Incisalia)
ssp. g. windi (Clench, 1943) (Incisalia)

77a0517 C. augustinus (Westwood, 1852) (Thecla) [NEW]
ssp. a. croesioides (Scudder, 1876) (Incisalia)
ssp. b. helenae (dos Passos, 1943) (Incisalia)
ssp. c. augustinus (Westwood, 1852) (Thecla)
augustus (Kirby, 1837) (Thecla) preocc. [4322]
ssp. d. concava (Austin, 1998) (Incisalia)
ssp. e. iroides (Boisduval, 1852) (Thecla)
immaculata (Cockle, 1897) (Thecla)
ssp. f. annetteae (dos Passos, 1943) (Incisalia)

77a0518 C. fotis (Strecker, [1878]) (Thecla) 4323
ssp. a. fotis (Strecker, [1878]) (Thecla)
ssp. b. mojavensis (Austin, 1998) (Incisalia)

77a0519 C. mcfarlandi Ehrlich & Clench, 1960 (Callophrys) 4321
madreoriente (Johnson, 1988) (Sandia)

Subgenus GREENIE Grishin, 2021

77a0520 C. affinis (Edwards, 1862) (Thecla) 4305
ssp. a. washingtonia Clench, 1944 (Callophrys)
ssp. b. affinis (Edwards, 1862) (Thecla)
ssp. c. homoperplexa Barnes & Benjamin, 1923 (Callophrys)
ssp. d. albipalpus Gorelick, 2005 (Callophrys)
ssp. e. apama (Edwards, 1882) (Thecla) [4304]

77a0521 C. sheridanii (Edwards, 1877) (Thecla) 4307
sheridonii; (Edwards, 1877) (Thecla) orig. missp.
ssp. a. pseudodumetorum Emmel, Emmel & Mattoon, 1998 (Callophrys)
ssp. b. newcomeri Clench, 1963 (Callophrys)
ssp. c. lemberti Tilden, 1963 (Callophrys) [4303]
ssp. d. interrupta Austin, 1998 (Callophrys)
ssp. e. comstocki Henne, 1940 (Callophrys) [4302]
ssp. f. paradoxa Scott, 1986 (Callophrys)
ssp. g. neoperplexa Barnes & Benjamin, 1923 (Callophrys)
ssp. h. sheridanii (Edwards, 1877) (Thecla) emend.
ssp. i. sacramento Scott, 2006 (Callophrys)

77a0522 C. viridis (Edwards, 1862) (Thecla) 4306
NOTE: Treated as a synonym of *C. dumetorum* by Pelham (2008) but recognized as a full species by Pelham (2022).
77a0523 C. dumetorum (Boisduval, 1852) (Thecla) 4301
ssp. a. oregonensis Gorelick, [1970] (Callophrys)
ssp. b. dumetorum (Boisduval, 1852) (Thecla)
ssp. c. superperplexa Emmel, Emmel & Mattoon, 1998 (Callophrys)
ssp. d. perplexa Barnes & Benjamin, 1923 (Callophrys)
NOTE: The taxon *perplexa* was described as a race of *C. dumetorum*. Emmel et al. (in Emmel 1998) designated a lectotype for *Thecla dumetorum*. This lectotype represented a specimen of what had traditionally been considered *Callophrys viridis*. This created an uneasy juggling of names and the potential for further problems since the names *dumetorum* and *viridis* are both senior to *sheridanii*. ICZN (2021) Opinion 2291 resolved these by designating a neotype such that the name *dumetorum* is employed as it was before 1998 and gave *sheridanii* precedence over *viridis* if they are considered conspecific.

Genus CHLOROSTRYMON Clench, 1961

77a0524 C. simaethis (Drury, 1773) (Papilio) 4273
ssp. a. simaethis (Drury, 1773) (Papilio)
lycus (Skinner, 1898) (Thecla)
ssp. b. sarita (Skinner, 1895) (Thecla)
77a0525 C. maesites (Herrich-Schäffer, 1865) (Thecla) 4271
77a0526 C. telea (Hewitson, 1868) (Thecla) 4272

Genus ERORA Scudder, 1872
ANDROCONA Johnson, Eisele & MacPherson, 1993
NECMITOURA Johnson, Eisele & MacPherson, 1993
SARRACENOTA Johnson, Eisele & MacPherson, 1993

77a0527 E. laeta (Edwards, 1862) (Thecla) 4349
clothilde (Edwards, 1863) (Thecla)
77a0528 E. quaderna (Hewitson, 1868) (Thecla) extralim. 4350
ssp. a. sanfordi dos Passos, 1940 (Erora)

Genus SATYRIUM Scudder, 1876

Subgenus CALLIPSYCHE Scudder, 1876

77a0529 S. behrii (Edwards, 1870) (Thecla) 4276
ssp. a. behrii (Edwards, 1870) (Thecla)
kali (Strecker, [1878]) (Thecla)
nigroinita (Gunder, 1924) (Callipsyche)
ssp. b. columbia (McDunnough, 1944) (Callipsyche)
ssp. c. crossi (Field, 1938) (Callipsyche)
77a0530 S. tetra (Edwards, 1870) (Thecla) 4287
adenostoma (Scudder, 1876) (Thecla)
adenostomatis (Edwards, 1877) (Thecla)
77a0531 S. saepium (Boisduval, 1852) (Thecla) 4288
ssp. a. saepium (Boisduval, 1852) (Thecla)
illepida (Johnson, 1992) (Ignata)
okanagana (McDunnough, 1944) (Strymon)
ssp. b. chalcis (Edwards, 1869) (Thecla)
fulvescens (Edwards, 1877) (Thecla)
NOTE: Recent synonymy by Davenport (2018).
ssp. c. rubrotenebrosum Emmel, Emmel & Mattoon, 1998 (Satyrium)
ssp. d. caliginosum Emmel, Emmel & Mattoon, 1998 (Satyrium)
ssp. e. chlorophora (Watson & Comstock, 1920) (Strymon)
ssp. f. subaridum Emmel, Emmel & Mattoon, 1998 (Satyrium)
ssp. g. obscurofuscum Austin, 1998 (Satyrium)
ssp. h. latalinea Austin & Savage, 1998 (Satyrium)
ssp. i. provo (Watson & Comstock, 1920) (Strymon)

Subgenus FIXSENIA Tutt, 1907
CHRYSOPHANUS Hübner, 1818
EURISTRYMON Clench, 1961
HARKENCLENUS dos Passos, 1970
LEECHIA Tutt, 1907
STRYMONIDIA Tutt, 1908

77a0532 S. titus (Fabricius, 1793) (Hesperia) 4275
ssp. a. titus (Fabricius, 1793) (Hesperia)
mopsus (Hübner, 1818) (Chrysophanus)
ssp. b. winteri (Gatrelle, 2004) (Harkenclenus)
ssp. c. campus (Gatrelle, 2004) (Harkenclenus)
ssp. d. watsoni (Barnes & Benjamin, 1926) (Strymon)
ssp. e. immaculosus (Comstock, 1913) (Strymon)
ssp. f. carrizozo Holland, 2010 (Satyrium)
ssp. g. occidentalis (Austin & Emmel, 1998) (Harkenclenus)
77a0533 S. auretorum (Boisduval, 1852) (Thecla) 4286
ssp. a. auretorum (Boisduval, 1852) (Thecla)
tacita (Edwards, 1881) (Thecla)
ssp. b. spadix (Edwards, 1881) (Thecla)
ssp. c. fumosum Emmel & Mattoni, 1990 (Satyrium)
77a0534 S. polingi (Barnes & Benjamin, 1926) (Strymon) 4333
ssp. a. polingi (Barnes & Benjamin, 1926) (Strymon)
ssp. b. organensis (Ferris, 1980) (Fixsenia)
77a0535 S. favonius (Smith, 1797) (Papilio) 4331
ssp. a. ontario (Edwards, 1868) (Thecla) [4332]
ssp. b. favonius (Smith, 1797) (Papilio)
ssp. c. autolycus (Edwards, 1871) (Thecla)
ssp. d. violae (Stallings & Turner, 1947) (Strymon)
77a0536 S. ilavia (Beutenmüller, 1899) (Thecla) [NEW]
mirabelle (Barnes, 1900) (Thecla)

Subgenus SATYRIUM Scudder, 1876
ARGUS Gerhard, 1850
ARMENIA Dubatolov & Korshunov, 1984
BAKERIA Tutt, 1907
CHATTENDENIA Tutt, 1908
EDWARDSIA Tutt, 1907
ERSCHOFFIA Tutt, 1907
FELDERIA Tutt, 1907
KLUGIA Tutt, 1907
KOLLARIA Tutt, 1907
NECOVATIA Verity, 1951
NEOLYCAENA Nicéville, 1890
NEOSATYRIUM Fisher, 2009
NORDMANNIA Tutt, 1907
PHAEOSTRYMON Clench, 1961
NOTE: Recent synonymy by Zhang et al. (2019b).
PSEUDOTHECLA Strand, 1910
RHYMNARIA Zhdanko, 1983
SUPERFLUA Strand, 1910
THECLIOLIA Strand, 1910
TUTTIOLA Strand, 1910

77a0537 S. alcestis (Edwards, 1871) (Thecla) 4274
ssp. a. alcestis (Edwards, 1871) (Thecla)
ssp. b. oslari (Dyar, 1904) (Thecla)
77a0538 S. kingi (Klots & Clench, 1952) (Strymon) 4284
77a0539 S. liparops (Le Conte, [1833] 1793) (Thecla) 4285
ssp. a. floridensis Gatrelle, 2001 (Satyrium)
ssp. b. liparops (Le Conte, [1833] 1793) (Thecla)
anacreon (Fabricius, 1793) (Hesperia)
ssp. c. strigosa (Harris, 1862) (Thecla)
pruina (Scudder, 1889) (Thecla)
ssp. d. fletcheri (Michener & dos Passos, 1942) (Strymon)
ssp. e. aliparops (Michener & dos Passos, 1942) (Strymon)
77a0540 S. caryaevorus (McDunnough, 1942) (Strymon) 4283
77a0541 S. calanus (Hübner, [1809]) (Rusticus) 4282
ssp. a. calanus (Hübner, [1809]) (Rusticus)
wittfeldii (Edwards, 1883) (Thecla)
ssp. b. falacer (Godart, [1824]) (Polyommatus)
boreale (Lafontaine, 1969) (Strymon)
heathii (Fletcher, 1903) (Thecla)
inorata (Grote & Robinson, 1868) (Thecla)
lorata (Grote & Robinson, 1867) (Thecla)
ssp. c. godarti (Field, 1938) (Strymon)
ssp. d. albidus Scott, 1981 (Satyrium)
77a0542 S. edwardsii (Grote & Robinson, 1867) (Thecla) 4281
ssp. a. edwardsii (Grote & Robinson, 1867) (Thecla)
fabricii (Kirby, 1871) (Thecla)
ssp. b. meridionale Gatrelle, 2001 (Satyrium)
77a0543 S. acadica (Edwards, 1862) (Thecla) 4278
ssp. a. acadica (Edwards, 1862) (Thecla)
coolinensis (Watson & Comstock, 1920) (Strymon)
muskoka (Watson & Comstock, 1920) (Strymon)
souhegan (Whitney, 1868) (Thecla)
swetti (Watson & Comstock, 1920) (Strymon)

watrini (Dufrane, 1939) (Thecla)
ssp. b. montanensis (Watson & Comstock, 1920) (Strymon)

77a0544 S. californica (Edwards, 1862) (Thecla) 4279
ssp. a. californica (Edwards, 1862) (Thecla)
borus (Boisduval, 1869) (Thecla)
ssp. b. cygnus (Edwards, 1871) (Thecla)
ssp. c. obscurafacies Austin, 1998 (Satyrium)
brashor Kondla & Scott, 2006 (Satyrium)
wapiti Fisher, 2006 (Satyrium)
ssp. d. helenae Fisher, 2009 (Satyrium)

77a0545 S. sylvinus (Boisduval, 1852) (Thecla) 4280
ssp. a. sylvinus (Boisduval, 1852) (Thecla)
ssp. b. nootka Fisher, 1998 (Satyrium)
ssp. c. putnami (Edwards, 1877) (Thecla)
ssp. d. megapallidum Austin, 1998 (Satyrium)
ssp. e. itys (Edwards, 1882) (Thecla)
ssp. f. desertorum (Grinnell, 1917) (Strymon)

77a0546 S. dryope (Edwards, 1870) (Thecla) [NEW]
NOTE: Raised from subspecies of *S. sylvinus* by Zhang et al. (2022d).

77a0547 S. fuliginosa (Edwards, 1861) (Lycaena) 4277
ssp. a. fuliginosa (Edwards, 1861) (Lycaena)
suasa (Boisduval, 1869) (Lycaena)
ssp. b. tildeni Mattoon & Austin, 1998 (Satyrium)
ssp. c. albolineatum Mattoon & Austin, 1998 (Satyrium)

77a0548 S. semiluna Klots, 1930 (Satyrium) [NEW]
ssp. a. semiluna Klots, 1930 (Satyrium)
ssp. b. maculadistinctum Mattoon & Austin, 1998 (Satyrium)
immaculata Gunder, 1927 (Satyrium)

Subtribe STREPHONOTINA Johnson, Austin, Le Crom & Salazar, 1997

Genus MINISTRYMON Clench, 1961

Ministrymon azia group Johnson & Miller, 1991

77a0549 M. azia (Hewitson, [1873] 1860) (Thecla) 4293
brocela (Dyar, 1913) (Thecla)
guacanagari (Wallengren, 1860) (Thecla)
hernandezi Schwartz & Johnson, 1992 (Ministrymon)
nipona (Hewitson, 1877) (Thecla)
quebradivaga Johnson & Miller, 1991 (Ministrymon)

77a0550 M. janevicroy Glassberg, 2013 (Ministrymon) [NEW]

Ministrymon phrutus group Johnson & Miller, 1991

77a0551 M. leda (Edwards, 1882) (Thecla) 4291
ines (Edwards, 1882) (Thecla)

77a0552 M. clytie (Edwards, 1877) (Thecla) 4290
daplissus (Johnson & Salazar, 1993) (Strymon)
maevia (Godman & Salvin, 1887) (Thecla)

Genus TMOLUS Hübner, [1819]

77a0553 T. echion (Linnaeus, 1767) (Papilio) extralim.; STRAY 4292
ssp. a. echiolus (Draudt, 1920) (Thecla) (stray)

Genus GARGINA Robbins, 2004

77a0554 G. gnosia (Hewitson, 1868) (Thecla) [NEW]
NOTE: Reported from TX in the 2016 Season Summary of the Lepidopterists' Society (2017)
literatus (Druce, 1907) (Thecla)
nugar (Schaus, 1902) (Thecla)

Genus STREPHONOTA Johnson, Austin, Le Crom & Salazar, 1997
DIMINUTINA Johnson, Austin, Le Crom & Salazar, 1997
DINDYMINOTES Johnson, Austin, Le Crom & Salazar, 1997
LETIZIA Johnson, Austin, Le Crom & Salazar, 1997
ROBUSTANA Johnson, Austin, Le Crom & Salazar, 1997
SERRATONOTES Johnson, Austin, Le Crom & Salazar, 1997
SYEDRANOTA Johnson, Austin, Le Crom & Salazar, 1997
TREBONIANA Johnson, Austin, Le Crom & Salazar, 1997
ZIGIRINA Johnson, Austin, Le Crom & Salazar, 1997

77a0555 S. tephraeus (Geyer, 1837) (Bithys) STRAY [NEW]
faventia (Hewitson, 1867) (Thecla)
nippia (Dyar, 1918) (Thecla)
villia (Hewitson, 1869) (Thecla)

Subtribe STRYMONINA Tutt, 1907

Genus HYPOSTRYMON Clench, 1961

77a0556 H. critola (Hewitson, 1874) (Thecla) 4334
NOTE: Considered a stray in NA by Brock & Kaufman (2003), but this species regularly breeds in southern AZ and may be resident at very low populations.
aderces Clench, 1975 (Hypostrymon)
festata (Weeks, 1891) (Hypolycaena)
ines Scott, 1986 (Hypostrymon)
margaretae Clench, 1975 (Hypostrymon)

Genus PANTHIADES Hübner, [1819]
CYCNUS Hübner, [1819]

77a0557 P. bathildis (Felder & Felder, 1865) (Pseudolycaena) [NEW]
NOTE: Recorded from TX by Bordelon (2013).
aufidena (Hewitson, 1869) (Thecla)
battus (Cramer, [1775]) (Plebejus)
jalan (Reakirt, [1867]) (Thecla)

Genus REKOA Kaye, 1904
HETEROSMAITIA Clench, [1964]

77a0558 R. palegon (Cramer, [1780]) (Papilio) STRAY 4297
cyrriana (Hewitson, 1874) (Thecla)
juicha (Reakirt, [1867]) (Thecla)
myrtillus (Stoll, in: Cramer, [1782]) (Papilio)
ulia (Dyar, 1913) (Thecla)

77a0559 R. marius (Lucas, 1857) (Thecla) [NEW]
aon (Lucas, 1857) (Thecla)
brescia (Hewitson, 1868) (Thecla)
ericusa (Hewitson, 1867) (Thecla)
spurina (Hewitson, 1867) (Thecla) *[4296]*
voconia (Hewitson, 1869) (Thecla)
zebina of authors; (not Hewitson, 1869) (Thecla) misid. *[4295]*
NOTE: NA records are misidentifications of *R. marius* (Pelham 2008).

77a0560 R. stagira (Hewitson, 1867) (Thecla) UNVER. [NEW]
NOTE: Reported from TX based on photographs that cannot be identified with certainty. It was excluded from the NA fauna by Pelham (2008) pending a confirmed record.

Genus STRYMON Hübner, 1818
CALLICISTA Grote, 1873
CALLIPAREUS Scudder, 1872
EISELIANA Toledo, 1978
HEODA Johnson, Miller & Herrera, 1992
URANOTES Scudder, 1876

77a0561 S. cestri (Reakirt, [1867]) (Thecla) STRAY 4347
chamiensis Salazar, Vélez & Johnson, 1997 (Strymon)
crossoea (Hewitson, 1874) (Thecla)
cydia (Hewitson, 1874) (Thecla)

77a0562 S. bazochii (Godart, [1824]) (Polyommatus) 4348
ssp. a. bazochii (Godart, [1824]) (Polyommatus)
agra (Hewitson, 1868) (Thecla)
infrequens (Weeks, 1901) (Thecla)
thius (Geyer, 1832) (Hyreus)

77a0563 S. istapa (Reakirt, [1867]) (Thecla) [NEW]
columella of authors; (not Fabricius, 1793) (Hesperia) misid. *[4345]*
NOTE: This taxon has been widely reported from NA, based on misidentifications of *S. istapa* (Pelham 2008).
cybira (Hewitson, 1873) (Thecla)
NOTE: This Caribbean synonym was reported from NA as a valid species in Miller & Brown (1981).
ssp. a. modesta (Maynard, 1873) (Lycaena)
ocellifera (Grote, 1873) (Callicista)
ssp. b. istapa (Reakirt, [1867]) (Thecla)

ssp. c. clenchi Austin & Emmel, 1998 (Strymon)
77a0564 S. limenia (Hewitson, 1868) (Thecla) 4346
77a0565 S. rufofusca (Hewitson, 1877) (Thecla) 4338
grisea (Dufrane, 1939) (Thecla)
guanensis Le Crom & Johnson, 1997 (Strymon)
lucaris (Weeks, 1901) (Thecla)
nigriplaga (Dufrane, 1939) (Thecla)
valentina (Berg, 1896) (Thecla)
77a0566 S. yojoa (Reakirt, [1867]) (Thecla) STRAY 4341
beroea (Hewitson, 1868) (Thecla)
77a0567E S. daraba (Hewitson, 1867) (Thecla) EXCL. [NEW]
NOTE: This South American species was reported from NA in error by dos Passos (1964).
77a0568 S. bebrycia (Hewitson, 1868) (Thecla) STRAY 4339
buchholzi Freeman, 1950 (Strymon)
chonida (Hewitson, 1874) (Thecla)
77a0569 S. melinus Hübner, 1818 (Strymon) 4336
ssp. a. melinus Hübner, 1818 (Strymon)
hyperici (Boisduval & Le Conte, 1833) (Thecla)
youngi Field, 1936 (Strymon)
ssp. b. humuli (Harris, 1841) (Thecla)
meinersi Gunder, 1927 (Strymon)
ssp. c. franki Field, 1938 (Strymon)
ssp. d. setonia McDunnough, 1927 (Strymon)
ssp. e. atrofasciata McDunnough, 1921 (Strymon)
ssp. f. pudica Edwards, 1877 (Strymon)
77a0570 S. avalona (Wright, 1905) (Thecla) 4337
77a0571 S. alea (Godman & Salvin, 1887) (Thecla) 4344
laceyi (Barnes & McDunnough, 1910) (Callicista)
77a0572 S. martialis (Herrich-Schäffer, 1865) (Thecla) 4340
77a0573 S. acis (Drury, 1773) (Papilio) extralim. 4343
ssp. a. bartrami (Comstock & Huntington, 1943) (Thecla)
77a0574E S. bubastus (Stoll, in: Cramer, [1780]) (Papilio) EXCL. [NEW]
NOTE: The synonym *peruensis* (Dufrane) was reported in error from NA by Miller & Brown (1981). *S. bubastus* does not occur north of Central America (Pelham 2008).
peruensis (Dufrane, 1939) (Thecla) (excl.)
77a0575 S. albata (Felder & Felder, 1865) (Thecla) STRAY 4342
sedecia (Hewitson, 1874) (Thecla)
77a0576 S. serapio (Godman & Salvin, 1887) (Thecla) [NEW]
NOTE: Bordelon (2009) records this species for TX; Rickard & Grishin (2010) confirmed its occurrence there and discuss this taxon.
altamiraensis Johnson & Kroenlein, 1993 (Strymon)
golbachi Johnson, Eisele & MacPherson, 1990 (Strymon)
henaoi Salazar, Vélez & Johnson, 1997 (Strymon)
hurtadoi Johnson, 1997 (Strymon)
inconspicua (Lathy, 1930) (Thecla)
lemnos (Druce, 1890) (Thecla)
mesca (Dyar, 1914) (Thecla)
originatus Johnson, Hernández & Cock, 1997 (Strymon)
rosari Torres & Johnson, 1997 (Strymon)
trunctogen Johnson & Salazar, 1993 (Strymon)
77a0577 S. solitario Grishin & Durden, 2012 (Strymon) [NEW]

Genus ARAWACUS Kaye, 1904
DOLYMORPHA Holland, 1931
POLYNIPHES Kaye, 1904
TIGRINOTA Johnson, 1992

77a0578 A. jada (Hewitson, 1867) (Thecla) STRAY 4330

Subtribe CALYCOPIDINA Duarte & Robbins, 2010

Genus PENDANTUS Johnson & Kroenlein, 1993
NOTE: Raised from synonymy with *Electrostrymon* by Zhang et al. (2019b).

77a0579 P. guzanta (Schaus, 1902) (Thecla) [NEW]
aurantiaca (Johnson, 1992) (Arases)

Genus CALYCOPIS Scudder, 1876
ANTRISSIMA Johnson, 1991
ARGENTOSTRIATUS Johnson, 1991
CALYSTRYMA Field, 1967
CYANODIVIDA Johnson, 1991
DISTISSIMA Johnson, 1991
FEMNITERGA Johnson, 1988
FIELDIA Johnson, 1991
FURCOVALVA Johnson, 1991
GIGANTOFALCA Johnson, 1991
KLAUFERA Johnson, 1991
KROENLEINA Johnson, 1991
MERCEDES Johnson, 1991
MORPHISSIMA Johnson, 1991
PROFIELDIA Johnson, 1992
REVERSUSTUS Johnson, 1991
SERRATOFALCA Johnson, 1991
SERRATOTERGA Johnson, 1991
TERGISSIMA Johnson, 1988
TERMINOSPINISSIMA Johnson, 1991

77a0580 C. cecrops (Fabricius, 1793) (Hesperia) 4299
gottschalki (Clark & Clark, 1938) (Strymon)
nivnix (Johnson, Eisele & MacPherson, 1990) (Strymon)
poeas (Hübner, [1811]) (Rusticus)
77a0581 C. isobeon (Butler & Druce, 1872) (Tmolus) 4300
escuintla (Johnson, 1991) (Kroenleina)

Genus KISUTAM Johnson, 1993

77a0582 K. syllis (Godman & Salvin, 1887) (Thecla) [NEW]
NOTE: Recorded from TX by Bordelon (2009) and Rickard (2010).
politus (Druce, 1907) (Thecla)
simplica (Johnson, 1993) (Gigantorubra)
subisobeon (Strand, 1918) (Thecla)

Genus ELECTROSTRYMON Clench, 1961
ANGULOPIS Johnson, 1992

77a0583 E. hugon (Godart, [1824]) (Polyommatus) [NEW]
autoclea (Hewitson, 1877) (Thecla)
callides (Dyar, 1914) (Thecla)
cyphara (Hewitson, 1874) (Thecla)
endymion of authors; (not Fabricius, 1775) (Papilio) misid. *[4351]*
NOTE: All known NA specimens have been misidentifications of *E. hugon* (Pelham 2008).
sangala (Hewitson, 1868) (Thecla)
77a0584 E. joya (Dognin, 1895) (Thecla) [NEW]
bunnirae (Dyar, 1918) (Thecla)
callao (Druce, 1907) (Thecla)
canus (Druce, 1907) (Thecla)
nubes (Druce, 1907) (Thecla)
rugatus (Druce, 1907) (Thecla)
shargeli (Johnson, [1990]) (Tergissima)
77a0585 E. angelia (Hewitson, 1874) (Thecla) I 4352
ssp. a. angelia (Hewitson, 1874) (Thecla)
NOTE: Thought to be introduced from the West Indies to southern FL (Brock & Kaufman 2003); first found there in 1973 (Anderson 1974).

Subtribe PARRHASIINA Busby & Robbins, 2022

Genus OENOMAUS Hübner, [1819]
DRAUDTIANA Kesselring & Ebert, [1982]

77a0586 O. ortygnus (Cramer, [1779]) (Papilio) STRAY 4294
lauta (Draudt, 1918) (Thecla)

Genus MICHAELUS Nicolay, 1979

77a0587 M. ira (Hewitson, 1867) (Thecla) [NEW]
NOTE: Reported from TX in the 2015 Season Summary of the Lepidopterists' Society (2016).
hewitsoni (Kirby, 1871) (Thecla)
socigena (Hewitson, 1877) (Thecla)
venustula (Zikán & Zikán, 1968) (Thecla)
vibidia (Hewitson, 1869) (Thecla)

Genus PARRHASIUS Hübner, [1819]
EUPSYCHE Scudder, 1876

77a0588 P. m-album (Boisduval & Le Conte, [1833] 1793) (Thecla) 4335
euripides (Fabricius, 1793) (Hesperia)
psyche (Boisduval & Le Conte, [1833]) (Thecla)
77a0589 P. moctezuma (Clench, 1971) (Panthiades) [NEW]
NOTE: This species was reported from AZ in the 2016 Season Summary of the Lepidopterists' Society (2017).

Subtribe JANTHECLINA Robbins & Faynel, 2020

Genus ALLOSMAITIA Clench, [1964]

77a0590 A. strophius (Godart, [1824]) (Polyommatus) [NEW]
pion (Godman & Salvin, 1887) (Thecla) *[4298]*
scoteia (Hewitson, 1877) (Thecla)

Subtribe ATLIDINA Martins & Duarte, 2020

Genus ATLIDES Hübner, [1819]
RIOJANA d'Abrerra & Bálint, 2001

77a0591 A. halesus (Cramer, [1777]) (Papilio) 4270
ssp. a. halesus (Cramer, [1777]) (Papilio)
dolichos Hübner, 1823 (Atlides)
juanita (Scudder, 1868) (Thecla)
ssp. b. corcorani Clench, 1942 (Atlides)
corcorani Gunder, 1934 (Atlides)
estesi Clench, 1942 (Atlides)

Genus PSEUDOLYCAENA Wallengren, 1858 (excl.)

77a0592E P. marsyas (Linnaeus, 1758) (Papilio) EXCL. [NEW]
NOTE: Reported from TX by Pyle (1981) but no confirmed NA records are known (Pelham 2008).

Subtribe EUMAEINA Doubleday, 1847

Genus EUMAEUS Hübner, [1819]
EPULA Gistel, 1848
EUMAEA Geyer, [1834]
EUMENIA Godart, [1824]

77a0593 E. toxea (Godart, [1824]) (Eumenia) [NEW]
NOTE: Presence of this species in NA was previously deemed uncertain, until Hall (2019) figured a TX voucher. The name *minyas* was used historically for this species, including by Goodson (1947). The misspelling "*minijas*" was used by Miller & Brown (in Hodges et al. 1983).
minijas; ([various, no date]) (Rusticus) missp. *[4269]*
minyas of authors; (not Hübner, [1809]) (Rusticus) misappl.
77a0594 E. atala (Poey, 1832) (Eumenia) 4268
florida Röber, 1926 (Eumaeus)
grayi Comstock & Huntington, 1943 (Eumaeus)

Subfamily POLYOMMATINAE Swainson, 1827

Tribe POLYOMMATINI Swainson, 1827

Subtribe BREPHIDIINA Gifford, 1965

Genus ZIZULA Chapman, 1910

77a0595 Z. cyna (Edwards, 1881) (Lycaena) 4355
mela (Strecker, 1900) (Lycaena)
tulliola (Godman & Salvin, 1887) (Lycaena)

Genus BREPHIDIUM Scudder, 1876

77a0596 B. exilis (Boisduval, 1852) (Lycaena) [NEW]
exile; Miller & Brown, 1983 (Brephidium) missp. *[4353]*
ssp. a. exilis (Boisduval, 1852) (Lycaena)
coolidgei Gunder, 1925 (Brephidium)
fea (Edwards, 1871) (Lycaena)
ssp. b. isophthalma (Herrich-Schäffer, 1862) (Lycaena) (excl.) [4354]
NOTE: This extralimital subspecies was listed as a valid NA species by Miller & Brown (in Hodges et al. 1983).
77a0597 B. pseudofea (Morrison, 1873) (Lycaena) [NEW]
ssp. a. pseudofea (Morrison, 1873) (Lycaena)
ssp. b. insularus Pavulaan & Gatrelle, 1999 (Brephidium)
carolina Pavulaan, 1993 (Brephidium)

Subtribe CATOCHRYSOPSINA Forster, 1938 (excl.)

Genus CATOCHRYSOPS Boisduval, 1832 (excl.)

77a0598E C. strabo (Fabricius, 1793) (Hesperia) EXCL. [NEW]
NOTE: The synonym *tejua* Reakirt was described from "California" in error, based on misidentified specimens. "True" *C. strabo* is restricted to the East Indies (Pelham 2008).
tejua Reakirt, 1866 (Catochrysops) (excl.)

Subtribe LAMPIDINA Tutt, 1907

Genus LAMPIDES Hübner, [1819]
COSMOLYCE Toxopeus, 1927
LAMPIDELLA Hemming, 1933

77a0599E L. boeticus (Linnaeus, 1767) (Papilio) EXCL. [NEW]
NOTE: This Palaeotropical species has been introduced to Hawaii, and is listed by Pelham (2008, 2022). It was erroneously listed as occurring in continental NA by Pohl et al. (2016).

Subtribe LEPTOTINA Wagener, 1995

Genus LEPTOTES Scudder, 1876
CYCLYRIUS Butler, 1897
LANGIA Tutt, 1906
RAYWARDIA Tutt, 1908
SYNTARUCOIDES Kaye, 1904
SYNTARUCUS Butler, [1901]

Leptotes cassius group Bálint & Johnson, 1995

77a0600 L. cassius (Cramer, [1775]) (Papilio) extralim. 4356
ssp. a. theonus (Lucas, 1857) (Lycaena)
floridensis (Morrison, 1873) (Lycaena)
ssp. b. cassidula (Boisduval, 1870) (Lycaena)
striata (Edwards, 1877) (Lycaena)

Leptotes marina group Bálint & Johnson, 1995

77a0601 L. marina (Reakirt, 1868) (Lycaena) 4357
burdicki Henne, 1935 (Leptotes)
reakirti Field, 1936 (Leptotes)
violacea Gunder, 1925 (Leptotes)

Subtribe SCOLITANTIDINA Tutt, 1907

Genus PHILOTIELLA Mattoni, [1978]
NOTE: Zhang et al. (2020) relegated this taxon from genus to a subgenus of *Euphilotes* but that is not followed here. The recognition of *Philotiella* as a genus, as it has been nearly universally since its description, alleviates a number of nomenclatural issues.

77a0602 P. speciosa (Edwards, 1877) (Lycaena) 4370
ssp. a. speciosa (Edwards, 1877) (Lycaena)
ssp. b. septentrionalis Austin, 1998 (Philotiella)
ssp. c. bohartorum (Tilden, [1969]) (Philotes)
ssp. d. purisima Priestaf & Emmel, 1998 (Philotiella)
77a0603 P. leona Hammond & McCorkle, 2000 (Philotiella) [NEW]

Genus EUPHILOTES Mattoni, [1978]
ID INFO (partial): Kohler & Warren (2021).

Euphilotes battoides complex Pratt & Emmel, 1998

77a0604 E. battoides (Behr, 1867) (Lycaena) 4366
NOTE: The arrangement of taxa under this species is tentative. It is assumed that some taxa will eventually be removed to other species in the *battoides* complex.
ssp. a. battoides (Behr, 1867) (Lycaena)
ssp. b. argocyanea Pratt & Emmel, 1998 (Euphilotes)
ssp. c. mazourka Pratt & Emmel, 1998 (Euphilotes)
ssp. d. panamintensis Pratt & Emmel, 1998 (Euphilotes)
ssp. e. fusimaculata Austin, 1998 (Euphilotes)
77a0605 E. bernardino (Barnes & McDunnough, 1916) (Philotes) [NEW]
ssp. a. bernardino (Barnes & McDunnough, 1916) (Philotes)
baldyensis (Gunder, 1925) (Philotes)
ssp. b. inyomontana Pratt & Emmel, 1998 (Euphilotes)
ssp. c. minuta Austin, 1998 (Euphilotes)
ssp. d. martini (Mattoni, 1954) (Philotes)
77a0606 E. allyni (Shields, 1975) (Shijimiaeoides) [NEW]
NOTE: Elevated to full species status from synonymy of *E. battoides* in Rubinoff et al. (2021), following Davenport (2018).
77a0607 E. glaucon (Edwards, 1871) (Lycaena) [NEW]
ssp. a. glaucon (Edwards, 1871) (Lycaena)
ssp. b. oregonensis (Barnes & McDunnough, 1917) (Philotes)
ssp. c. australoglaucon Pratt & Emmel, 1998 (Euphilotes)

ssp. d. comstocki (Shields, 1975) (Shijimiaeoides)
ssp. e. intermedia (Barnes & McDunnough, 1917) (Philotes)
malcolmi (Gunder, 1927) (Philotes)

77a0608 E. heracleoides Kohler & Warren, 2021 (Euphilotes) [NEW]

77a0609 E. baueri (Shields, 1975) (Shijimiaeoides) [NEW]
ssp. a. borealis Kohler, 2021 (Euphilotes)
ssp. b. shoshone Kohler, 2021 (Euphilotes)
ssp. c. vernalis Pratt & Emmel, 1998 (Euphilotes)
NOTE: Davenport (2018) moved this subspecies from *E. battodes* to *E. baueri*.
ssp. d. baueri (Shields, 1975) (Shijimiaeoides)
ssp. e. orientis Austin, 1998 (Euphilotes)

77a0610 E. oakleyi Kohler, 2021 (Euphilotes) [NEW]
ssp. a. oakleyi Kohler, 2021 (Euphilotes)
ssp. b. madisonensis Kohler, 2021 (Euphilotes)

77a0611 E. centralis (Barnes & McDunnough, 1917) (Philotes) [NEW]
ssp. a. centralis (Barnes & McDunnough, 1917) (Philotes)
ssp. b. hadrochilus Pratt & Emmel, 1998 (Euphilotes)

77a0612 E. ellisii (Shields, 1975) (Shijimiaeoides) [NEW]
ssp. a. ellisii (Shields, 1975) (Shijimiaeoides)
ssp. b. anasazi Scott, 1998 (Euphilotes)
NOTE: Pratt & Emmel (1998) treated this as a species-level taxon.
ssp. c. basinensis Austin, 1998 (Euphilotes)
ssp. d. euromojavensis Pratt & Emmel, 1998 (Euphilotes)
ssp. e. avawatz Pratt & Emmel, 1998 (Euphilotes)

Euphilotes enoptes complex Pratt & Emmel, 1998

77a0613 E. ancilla (Barnes & McDunnough, 1918) (Philotes) [NEW]
ssp. a. montosa Kohler, 2021 (Euphilotes)
ssp. b. campestris Kohler, 2021 (Euphilotes)
NOTE: This subspecies was accidentally omitted from Pelham (2022).
ssp. c. barnesi Opler & Fisher, 2009 (Euphilotes)
ssp. d. ancilla (Barnes & McDunnough, 1918) (Philotes)
ssp. e. giulianii Pratt & Emmel, 1998 (Euphilotes)
ssp. f. gilvatunica Austin, 1998 (Euphilotes)
ssp. g. shieldsi Austin, 1998 (Euphilotes)
ssp. h. purpura Austin, 1998 (Euphilotes)
ssp. i. cryptica Austin & Boyd, 2008 (Euphilotes)
ssp. j. pseudointermedia Pratt & Emmel, 1998 (Euphilotes)

77a0614 E. stanfordorum Opler & Warren, in: Fisher, 2009 (Euphilotes) [NEW]

77a0615 E. mojave (Watson & Comstock, 1920) (Philotes) [NEW]
ssp. a. mojave (Watson & Comstock, 1920) (Philotes)
ssp. b. virginensis Austin, 1998 (Euphilotes)

77a0616 E. enoptes (Boisduval, 1852) (Lycaena) 4367
ssp. a. enoptes (Boisduval, 1852) (Lycaena)
ssp. b. aridorum Austin, 1998 (Euphilotes)
ssp. c. bayensis (Langston, 1964) (Philotes)
ssp. d. tildeni (Langston, 1964) (Philotes)
ssp. e. arenacola Pratt & Emmel, 1998 (Euphilotes)
ssp. f. smithi (Mattoni, 1954) (Philotes)
ssp. g. cryptorufes Pratt & Emmel, 1998 (Euphilotes)
ssp. h. primavera Austin, 1998 (Euphilotes)

77a0617 E. langstoni (Shields, 1975) (Shijimiaeoides) [NEW]
NOTE: Treated as a distinct species by Davenport (2020).

77a0618 E. dammersi (Comstock & Henne, 1933) (Philotes) [NEW]
NOTE: Treated as a distinct species by Davenport (2018).
ssp. a. dammersi (Comstock & Henne, 1933) (Philotes)
ssp. b. opacapulla Austin, 1998 (Euphilotes)

77a0619 E. columbiae (Mattoni, 1954) (Philotes) [NEW]

Euphilotes rita complex Pratt & Emmel, 1998

77a0620 E. spaldingi (Barnes & McDunnough, 1917) (Philotes) [NEW]
ssp. a. spaldingi (Barnes & McDunnough, 1917) (Philotes)
ssp. b. pinjuna Scott, 1981 (Euphilotes)

77a0621 E. rita (Barnes & McDunnough, 1916) (Lycaena) 4369
ssp. a. rita (Barnes & McDunnough, 1916) (Lycaena)
ssp. b. coloradensis (Mattoni, [1966]) (Philotes)
ssp. c. montanensis Kohler, 2021 (Euphilotes)

77a0622 E. pallescens (Tilden & Downey, 1955) (Philotes) 4368
ssp. a. emmeli (Shields, 1975) (Shijimiaeoides)
ssp. b. pallescens (Tilden & Downey, 1955) (Philotes)
ssp. c. mattonii (Shields, 1975) (Shijimiaeoides)
ssp. d. arenamontana Austin, 1998 (Euphilotes)
ssp. e. ricei Austin, 1998 (Euphilotes)
ssp. f. calneva Emmel & Emmel, 1998 (Euphilotes)
ssp. g. confusa Pratt & Emmel, 1998 (Euphilotes)
ssp. h. elvirae (Mattoni, [1966]) (Philotes)

Genus PHILOTES Scudder, 1876

77a0623 P. sonorensis (Felder & Felder, 1865) (Lycaena) 4365
ssp. a. sonorensis (Felder & Felder, 1865) (Lycaena)
comstocki Gunder, 1925 (Philotes)
regia (Boisduval, 1869) (Lycaena)
sonoralba Watson & Comstock, 1920 (Philotes)
ssp. b. extinctis Mattoni, 1991 (Philotes)

Genus GLAUCOPSYCHE Scudder, 1872
APELLES Hemming, 1931
BAJLUANA Korshunov & Ivonin, 1990
PHAEDROTES Scudder, 1876
SHIJIMIAEOIDES Beuret, 1958
NOTE: Synonymy by Zhang et al. (2022d).

77a0624 G. piasus (Boisduval, 1852) (Lycaena) 4371
ssp. a. umbrosa Emmel, Emmel & Mattoon, 1998 (Glaucopsyche)
ssp. b. sagittigera (Felder & Felder, 1865) (Lycaena)
rhaea (Boisduval, 1869) (Lycaena)
ssp. c. gabrielina Emmel, Emmel & Mattoon, 1998 (Glaucopsyche)
gorgonioi (Gunder, 1925) (Phaedrotes)
ssp. d. excubita Emmel, Emmel & Mattoon, 1998 (Glaucopsyche)
ssp. e. piasus (Boisduval, 1852) (Lycaena)
catalina (Reakirt, 1866) (Lycaena)
lorquini (Behr, 1867) (Lycaena)
viaca (Edwards, 1871) (Lycaena)
ssp. f. toxeuma Brown, 1971 (Glaucopsyche)
ssp. g. nevada Brown, 1975 (Glaucopsyche)
ssp. h. daunia (Edwards, 1871) (Lycaena)

77a0625 G. lygdamus (Doubleday, 1841) (Polyommatus) 4372
ssp. a. lygdamus (Doubleday, 1841) (Polyommatus)
boydi Clark, 1948 (Glaucopsyche)
ssp. b. nittanyensis Chermock, 1945 (Glaucopsyche)
NOTE: Calhoun (2019b) offered compelling evidence that this is a distinct subspecies. The synonymy is inferred.
ssp. c. mildredae Chermock, 1945 (Glaucopsyche)
ssp. d. couperi Grote, 1873 (Glaucopsyche)
macdunnoughi; dos Passos, 1964 (Glaucopsyche) emend.
mcdunnoughi Gunder, 1927 (Glaucopsyche)
ssp. e. afra (Edwards, [1884]) (Lycaena)
ssp. f. jacki Stallings & Turner, 1947 (Glaucopsyche)
leussleri Gunder, 1927 (Glaucopsyche)
ssp. g. oro (Scudder, 1876) (Nomiades)
ssp. h. erico Holland, 2011 (Glaucopsyche)
ssp. i. ruidoso Holland, 2011 (Glaucopsyche)
ssp. j. arizonensis McDunnough, 1936 (Glaucopsyche)
ssp. k. minipunctum Austin, 1998 (Glaucopsyche)
ssp. l. deserticola Austin & Emmel, 1998 (Glaucopsyche)
ssp. m. australis Grinnell, 1917 (Glaucopsyche)
sinepunctata Comstock, 1926 (Glaucopsyche)
ssp. n. palosverdesensis Perkins & Emmel, 1977 (Glaucopsyche)
ssp. o. sabulosa Emmel, Emmel & Mattoon, 1998 (Glaucopsyche)
ssp. p. xerces (Boisduval, 1852) (Lycaena) (extinct) [4373]
NOTE: This subspecies from the San Francisco, CA area is extinct.
antiacis (Boisduval, 1852) (Lycaena)
barnesi Gunder, 1927 (Glaucopsyche)
behrii (Edwards, 1862) (Lycaena)
huguenini Gunder, 1925 (Glaucopsyche)
intermedia Chermock, 1929 (Glaucopsyche)
mertila (Edwards, 1866) (Lycaena)

polyphemus (Boisduval, 1869) (Lycaena)
ssp. q. pseudoxerces Emmel & Emmel, 1998 (Glaucopsyche)
ssp. r. incognitus Tilden, 1974 (Glaucopsyche)
sternitzkyi Gunder, 1929 (Glaucopsyche)
ssp. s. orcus (Edwards, 1869) (Lycaena)
ssp. t. columbia (Skinner, 1917) (Lycaena)

Subtribe OBORONIINA Stradomsky, 2016 (excl.)

NOTE: This subtribe was proposed by Stradomsky (2016).

Genus EUCHRYSOPS Butler, 1900 (excl.)

77a0626E E. cnejus (Fabricius, 1798) (Hesperia) EXCL. [NEW]
NOTE: The synonym *monica* was described from material erroneously labeled as being from "California"; this species is from the East Indies and does not occur in NA (Pelham 2008).
monica (Reakirt, 1866) (Lycaena) (excl.)

Subtribe CELASTRININA Tutt, 1907

Genus CELASTRINA Tutt, 1906
ID INFO (partial): LaBar et al. (2022).
CYANIRIODES Matsumura, 1919
MASLOWSKIA Omelko & Omelko, 1984

77a0627 C. lucia (Kirby, 1837) (Polyommatus) [NEW]
ssp. a. lucia (Kirby, 1837) (Polyommatus)
brunnea Tutt, 1908 (Celastrina)
fumida (Scudder, 1889) (Cyaniris)
inaequalis Tutt, 1908 (Celastrina)
lucimargina Scott, 1981 (Celastrina) nom. nud.
NOTE: This name refers to a "form" that occurs widely in several *Celastrina* species; it is a nomen nudum with no nomenclatural standing and is placed here for convenience.
maculatasuffusa (Cockle, 1910) (Cyaniris)
marginata (Edwards, 1883) (Lycaena)
pseudora (Scudder, 1889) (Cyaniris)
quesnellii (Cockle, 1910) (Cyaniris)
subtusjuncta Tutt, 1908 (Celastrina)
ssp. b. lumarco Scott, 2006 (Celastrina)
77a0628 C. asheri LaBar, Pelham & Kondla, 2022 (Celastrina) [NEW]
77a0629 C. echo (Edwards, 1864) (Lycaena) [NEW]
NOTE: The inclusion of *nigrescens*, *sidara*, and *cinerea* as subspecies of *C. echo* is tentative, since some or all of these may be species-level taxa.
ssp. a. echo (Edwards, 1864) (Lycaena)
nunenmacheri (Strand, 1915) (Cyaniris)
ssp. b. nigrescens (Fletcher, 1903) (Lycaena)
bakeri (Clench, 1944) (Lycaenopsis)
ssp. c. sidara (Clench, 1944) (Lycaenopsis)
ssp. d. cinerea (Edwards, 1883) (Lycaena)
arizonensis (Edwards, [1885]) (Lycaena)
77a0630 C. ladon (Cramer, [1780]) (Papilio) 4363
argiolus of authors; (not Linnaeus, 1758) (Papilio) misappl.
NOTE: Reported from NA based on a previous taxonomic concept. "True" *C. argiolus* is restricted to the Old World (Pelham 2008).
pseudargiolus (Boisduval & Le Conte, [1835]) (Argus)
violacea (Edwards, 1866) (Lycaena)
77a0631 C. gozora (Boisduval, 1870) (Lycaena) UNVER. [NEW]
NOTE: Reported from NA as a subspecies of *C. ladon* by Miller & Brown (in Hodges et al. 1983), and subsequently recognized as a full species. The status of this taxon is unresolved and it was considered extralimital by (Pelham 2008).
77a0632 C. idella Wright & Pavulaan, 1999 (Celastrina) [NEW]
77a0633 C. serotina Pavulaan & Wright, 2005 (Celastrina) [NEW]
77a0634 C. neglecta (Edwards, 1862) (Lycaena) [NEW]
argentata (Fletcher, 1903) (Lycaena)
deutargiolus (Scudder, 1869) (Polyommatus)
pauper Tutt, 1908 (Celastrina)
77a0635 C. humulus Scott & Wright, 1998 (Celastrina) [NEW]
77a0636 C. neglectamajor Tutt, 1908 (Celastrina) [NEW]
NOTE: This name was described as a summer form of *neglecta-major*, and validated as a species-level taxon by Opler & Krizek (1984).
obsoletalunulata Tutt, 1908 (Celastrina)
77a0637 C. nigra (Forbes, 1960) (Plebeius) [NEW]
ebenina Clench, 1972 (Celastrina) *[4364]*
intermedia (Strecker, 1878) (Lycaena)
nigra (Edwards, [1884]) (Lycaena)
nigra (Strecker, 1878) (Lycaena)

Subtribe EVERINA Tutt, 1907

Genus CUPIDO Schrank, 1801
ZIZERA Moore, [1881]

Subgenus EVERES Hübner, [1819]
BINGHAMIA Tutt, 1908
TIORA Evans, 1912
UNUNCULA van Eecke, 1915

77a0638 C. comyntas (Godart, [1824]) (Polyommatus) 4361
ssp. a. comyntas (Godart, [1824]) (Polyommatus)
meinersi (Field, 1938) (Everes)
watermani (Nakahara, 1926) (Everes)
ssp. b. texana (Chermock, 1945) (Everes)
ssp. c. sissona (Wright, 1905) (Lycaena)
pacnowe Scott & Kondla, 2006 (Cupido)
77a0639 C. amyntula (Boisduval, 1852) (Lycaena) 4362
ssp. a. montanorum (Austin, 1998) (Everes)
ssp. b. amyntula (Boisduval, 1852) (Lycaena)
dodgei (Gunder, 1927) (Everes)
immaculata (Scott, 1981) (Everes)
immaculata Scott, 2006 (Cupido)
ssp. c. nesiotes (Emmel & Emmel, 1998) (Everes)
ssp. d. herri (Grinnell, 1901) (Everes)
arizonensis (Gunder, 1927) (Everes)
jemezensis (Gunder, 1927) (Everes)
ssp. e. valeriae (Clench, 1944) (Everes)
ssp. f. albrighti (Clench, 1944) (Everes)
maritima (Leblanc, 1985) (Everes) nom. nud.
NOTE: This taxon, historically treated as a subspecies, was convincingly designated a nomen nudum by Calhoun (2022).

Subtribe POLYOMMATINA Swainson, 1827

Genus CYCLARGUS Nabokov, 1945

77a0640 C. thomasi (Clench, 1941) (Hemiargus) extralim. 4358
ssp. a. bethunebakeri (Comstock & Huntington, 1943) (Hemiargus)
77a0641 C. ammon (Lucas, 1857) (Lycaena) [NEW]
NOTE: This species was first confirmed in NA from FL in 1985, and has since become established in the Lower Keys. It had been recorded previously from FL, but those previous reports were misidentifications of *C. thomasi bethunebakeri*; see Calhoun et al. (2002).
shuturn Johnson & Bálint, 1995 (Cyclargus)
sorpresus Johnson & Matusik, 1992 (Cyclargus)

Genus HEMIARGUS Hübner, 1818

77a0642 H. ceraunus (Fabricius, 1793) (Hesperia) extralim. 4359
hanno of authors; (not Stoll, 1790) (Papilio) misappl.
NOTE: *H. ceraunus* and all its subspecies were placed within a taxonomic concept of *H. hanno* by Lamas (2004), but *H. ceraunus* is treated here as a separate species, following Pelham (2008). Under the current concept, *C. hanno* is restricted to Central and South America.
ssp. a. antibubastus Hübner, 1818 (Hemiargus)
pseudoptiletes (Boisduval & Le Conte, [1835]) (Argus)
ssp. b. astenidas (Lucas, 1857) (Lycaena)
zachaeina (Butler & Druce, 1872) (Lampides)
ssp. c. gyas (Edwards, 1871) (Lycaena)
astragala (Wright, 1905) (Lycaena)
florencia (Clemence, 1914) (Lycaena)

Genus ECHINARGUS Nabokov, 1945

77a0643 E. isola (Reakirt, [1867]) (Lycaena) 4360
alce (Edwards, 1871) (Lycaena)
nyagora (Boisduval, 1870) (Lycaena)

Genus PLEBULINA Nabokov, 1944

77a0644 P. emigdionis (Grinnell, 1905) (Lycaena) 4377
melimona (Wright, 1905) (Lycaena)

Genus ICARICIA Nabokov, 1945

77a0645 I. shasta (Edwards, 1862) (Lycaena) 4379
ssp. a. shasta (Edwards, 1862) (Lycaena)
comstocki (Fox, 1924) (Plebejus)
nivium (Boisduval, 1869) (Lycaena)
zelmira (Felder & Felder, 1865) (Lycaena)
ssp. b. calchas (Behr, 1867) (Lycaena)

ssp. c. pallidissima Austin, 1998 (Icaricia)
ssp. d. minnehaha (Scudder, 1874) (Agriades)
browni (Ferris, 1970) (Plebejus)
ssp. e. charlestonensis (Austin, 1980) (Plebejus)
ssp. f. pitkinensis (Ferris, 1976) (Plebejus)
platazul (Scott, 2006) (Plebejus)

77a0646 I. neurona (Skinner, 1902) (Lycaena) 4382

77a0647 I. acmon (Westwood, [1851]) (Lycaena) 4380
antaegon (Boisduval, 1852) (Lycaena)
cottlei (Grinnell, 1916) (Rusticus)
kelseyi (Wright, 1930) (Plebeius)
labecula (Watson & Comstock, 1920) (Plebejus)

77a0648 I. lupini (Boisduval, 1869) (Lycaena) 4381
NOTE: The arrangement of taxa under this species is tentative; some of these may represent species-level taxa.
ssp. a. texanus Goodpasture, 1973 (Icaricia)
ssp. b. lutzi (dos Passos, 1938) (Plebeius)
pseudolupini (Ferris, 1970) (Plebejus)
ssp. c. spangelatus (Burdick, 1942) (Plebeius)
ssp. d. lupini (Boisduval, 1869) (Lycaena)
alupini (Scott, 2008) (Plebejus)
immaculata (Chermock, 1929) (Plebeius)
ssp. e. alpicola Emmel, Emmel & Mattoon, 1998 (Icaricia)
ssp. f. goodpasturei Austin, 1998 (Icaricia)

77a0649 I. chlorina (Skinner, 1902) (Lycaena) [NEW]
NOTE: Treated as a distinct species by Davenport (2018).
ssp. a. chlorina (Skinner, 1902) (Lycaena)
carolyna (Comstock, 1922) (Plebeius)
transvestitus (Scott, 1981) (Plebejus)
ssp. b. argentata Emmel, Emmel & Mattoon, 1998 (Icaricia)

77a0650 I. monticola (Clemence, 1909) (Rusticus) [NEW]
NOTE: Treated as a distinct species by Davenport (2018).
angelus (Gunder, 1929) (Plebeius)
malcolmi (Gunder, 1927) (Plebeius)
montanus (Gunder, 1929) (Plebeius)
pallida (Gunder, 1925) (Plebeius)

77a0651 I. dedeckera Emmel, Emmel & Mattoon, 1998 (Icaricia) [NEW]
NOTE: Treated as a distinct species by Davenport (2018).

77a0652 I. cotundra (Scott & Fisher, 2006) (Plebejus) [NEW]
NOTE: Opler (in Fisher 2009) elevated this taxon to the species level.

77a0653 I. saepiolus (Boisduval, 1852) (Lycaena) 4376
ssp. a. amica (Edwards, 1863) (Lycaena)
caerulescens (Ferris, 1970) (Plebeius)
kodiak (Edwards, 1870) (Lycaena)
ssp. b. insulanus (Blackmore, 1920) (Plebeius)
ssp. c. littoralis (Emmel, Emmel & Mattoon, 1998) (Plebejus)
ssp. d. saepiolus (Boisduval, 1852) (Lycaena)
ssp. e. rufescens (Boisduval, 1869) (Lycaena)
ssp. f. aehaja (Behr, 1867) (Lycaena)
ssp. g. albomontanus (Austin & Emmel, 1998) (Plebejus)
ssp. h. aureolus (Emmel, Emmel & Mattoon, 1998) (Plebejus)
ssp. i. hilda (Grinnell & Grinnell, 1907) (Cupido)
boharti (Gunder, 1932) (Plebeius)
garthi (Gunder, 1928) (Plebeius)
ssp. j. maculosus (Austin, 1998) (Plebejus)
ssp. k. gertschi (dos Passos, 1938) (Plebeius)
ssp. l. whitmeri (Brown, 1951) (Plebeius)
leussleri (Gunder, 1927) (Plebeius)

77a0654 I. icarioides (Boisduval, 1852) (Lycaena) 4378
ssp. a. evius (Boisduval, 1869) (Lycaena)
ssp. b. santana Emmel, Emmel & Mattoon, 1998 (Icaricia)
ssp. c. moroensis (Sternitzky, 1930) (Plebeius)
ssp. d. atascadero Emmel, Emmel & Mattoon, 1998 (Icaricia)
ssp. e. pardalis (Behr, 1867) (Lycaena)
erymus (Boisduval, 1869) (Lycaena)
mintha (Edwards, 1870) (Lycaena)
windi (Gunder, 1933) (Plebeius)
ssp. f. missionensis (Hovanitz, 1937) (Plebeius)
ssp. g. pheres (Boisduval, 1852) (Lycaena)
ssp. h. parapheres Emmel, Emmel & Mattoon, 1998 (Icaricia)
ssp. i. fenderi (Macy, 1931) (Plebeius)
ssp. j. blackmorei (Barnes & McDunnough, 1919) (Plebeius)
ssp. k. montis (Blackmore, 1923) (Plebeius)
ssp. l. helios (Edwards, 1871) (Lycaena)
spinimaculata (Gunder, 1926) (Plebeius)
ssp. m. icarioides (Boisduval, 1852) (Lycaena)
daedalus (Behr, 1867) (Lycaena)
maricopa (Reakirt, 1866) (Lycaena)
phileros (Boisduval, 1869) (Lycaena)
ssp. n. eosierra Emmel, Emmel & Mattoon, 1998 (Icaricia)
ssp. o. albihalos Emmel, Emmel & Mattoon, 1998 (Icaricia)
ssp. p. inyo Emmel, Emmel & Mattoon, 1998 (Icaricia)
ssp. q. argusmontana Emmel, Emmel & Mattoon, 1998 (Icaricia)
ssp. r. panamintina Emmel, Emmel & Mattoon, 1998 (Icaricia)
ssp. s. austinorum Emmel, Emmel & Mattoon, 1998 (Icaricia)
ssp. t. fulla (Edwards, 1870) (Lycaena)
ardea (Edwards, 1871) (Lycaena)
ssp. u. pembina (Edwards, 1862) (Lycaena)
ssp. v. lycea (Edwards, 1864) (Lycaena)
rapahoe (Reakirt, 1866) (Lycaena)
ssp. w. sacre (Holland, 2011) (Plebejus)
ssp. x. nigrafem (Holland, 2011) (Plebejus)
ssp. y. buchholzi (dos Passos, 1938) (Plebeius)

Genus AGRIADES Hübner, [1819]

Subgenus ALBULINA Tutt, 1909
VACCINIINA Tutt, 1909

77a0655 A. optilete (Knoch, 1781) (Papilio) extralim. H 4383
ssp. a. yukona (Holland, 1900) (Lycaena)

Subgenus AGRIADES Hübner, [1819]
LATORIANA Tutt, 1909

77a0656 A. glandon (de Prunner, 1798) (Plebejus) extralim. H [NEW]
NOTE: In the last half century the names *glandon*, *aquilo*, *franklinii* and *rustica* have all been applied at the species level to some or all populations of this complex in NA (e.g., Miller & Brown 1981; Ferris 1989; Opler 1992, 1999). Since no thorough analysis of NA populations has yet been presented, the following arrangement is tentative. It is unclear whether or not the name *aquilo* should be applied to the NA fauna. Until a lectotype or neotype for *aquilo* is designated, this issue will remain problematic but it is tentatively considered an Old World taxon herein.
aquilo of authors; (not Boisduval, 1833) (Plebeius) misappl.
ssp. a. labrador Schmidt, Scott & Kondla, 2006 (Agriades)
ssp. b. franklinii (Curtis, 1835) (Polyommatus) [4384]
suttoni (Holland, 1931) (Lycaena)
ssp. c. lacustris (Freeman, 1939) (Plebeius)
manitoba (Lamas, 2008) (Plebeius)
ssp. d. bryanti (Leussler, 1935) (Plebeius)
kohlsaati (Gunder, 1932) (Plebeius)
ssp. e. megalo (McDunnough, 1927) (Plebeius)
ssp. f. rustica (Edwards, 1865) (Lycaena)
ssp. g. punctatus Austin, 1998 (Agriades)
ssp. h. cassiope Emmel & Emmel, 1998 (Agriades)
ssp. i. kelsoni Emmel & Emmel, 1998 (Agriades)

77a0657 A. podarce (Felder & Felder, 1865) (Lycaena) [NEW]
ssp. a. cilla (Behr, 1867) (Lycaena)
ssp. b. podarce (Felder & Felder, 1865) (Lycaena)
nestos (Boisduval, 1869) (Lycaena)
tehama (Reakirt, 1866) (Lycaena)
ssp. c. klamathensis Emmel & Emmel, 1998 (Agriades)

Genus PLEBEJUS Kluk, 1780
LYCOENA Nicholl, 1901
PLEBEIUS Kirby, 1871
RUSTICUS Hübner, [1806]

Subgenus LYCAEIDES Hübner, [1819]

77a0658 P. idas (Linnaeus, 1761) (Papilio) extralim. H [NEW]

argyrognomon of authors; (not Bergstrasser, 1789) (Papilio) misappl. *[4374]*
NOTE: This Palaearctic name has been applied to NA populations under a previous taxonomic concept. As currently recognized, *P. argyrognomon* is restricted to the Old World.
ssp. a. empetri (Freeman, 1938) (Plebeius)
ssp. b. aster (Edwards, 1882) (Lycaena)
ssp. c. scudderii (Edwards, 1861) (Lycaena)
subarcticus (Chermock, 1945) (Plebeius)
ssp. d. nabokovi (Masters, 1972) (Lycaeides)
ssp. e. alaskensis (Chermock, 1945) (Plebeius)
ssp. f. atrapraetextus (Field, 1939) (Plebeius)
ferniensis (Chermock, 1945) (Plebeius)
sweadneri (Chermock, 1945) (Plebeius)
ssp. g. sublivens (Nabokov, 1949) (Lycaeides)
ssp. h. longinus (Nabokov, 1949) (Lycaeides)

77a0659 P. fridayi (Chermock, 1945) (Plebeius) [NEW]

77a0660 P. anna (Edwards, 1861) (Lycaena) [NEW]
ssp. a. anna (Edwards, 1861) (Lycaena)
argyrotoxus (Behr, 1867) (Lycaena)
cajona (Reakirt, 1866) (Lycaena)
philemon (Boisduval, 1869) (Lycaena)
ssp. b. ricei (Cross, 1937) (Plebeius)
frechini (Chermock, 1945) (Plebeius) emend.
fretchini; (Chermock, 1945) (Plebeius) orig. missp.
ssp. c. lotis (Lintner, 1879) (Lycaena)
ssp. d. azureus (Emmel, Emmel & Mattoon, 1998) (Lycaeides)
ssp. e. vancouverensis (Guppy & Shepard, 2001) (Lycaeides)
ssp. f. benwarner Scott, 2006 (Plebejus)

77a0661 P. melissa (Edwards, 1873) (Lycaena) 4375
ssp. a. melissa (Edwards, 1873) (Lycaena)
ssp. b. pseudosamuelis (Nabokov, 1949) (Lycaeides)
ssp. c. annetta (Edwards, 1882) (Lycaena)
caeca (Courvoisier, 1912) (Lycaena)
ssp. d. alateres (Austin, 1998) (Lycaeides)
ssp. e. inyoensis (Nabokov, 1949) (Lycaeides)
inyoensis (Gunder, 1927) (Plebeius)
ssp. f. paradoxa (Chermock, 1945) (Plebeius)

77a0662 P. samuelis (Nabokov, 1944) (Lycaeides) [NEW]
NOTE: Lane & Weller (1994) offered support for the specific status of this taxon. Lucas et al. (2008) also supported this status, which we follow here. However, Packer et al. (1998) and Gompert et al. (2006) offer contrary evidence that it is a subspecies of *Plebejus melissa*.

Genus POLYOMMATUS Latreille, 1804

77a0663 P. icarus (Rottemburg, 1775) (Papilio) I [NEW]
NOTE: Introduced from Europe to NA, discovered in 2007 in QC (Hall 2007). Most of the Palaearctic synonymy is not included.
ssp. a. icarus (Rottemburg, 1775) (Papilio)
alexis (Scopoli, 1763) (Papilio)
candaon (Bergsträsser, 1779) (Papilio)
candiope (Bergsträsser, 1779) (Papilio)
candybus (Bergsträsser, 1779) (Papilio)
casanensis (Krulikovsky, 1891) (Lycaena)
fusciolus (Geoffroy, 1785) (Papilio)
icarinus (Scharfenberg, 1791) (Papilio)
iphis Meigen, 1830 (Polyommatus)
oceanus (Bergsträsser, 1779) (Papilio)
oebalus (Hofmannsegg, 1804) (Papilio)
pampholyge (Bergsträsser, 1779) (Papilio)
polyphemus (Esper, 1779) (Papilio)
pusillus (Gerhard, 1851) (Lycaena)
thetis (Esper, 1777) (Papilio)

74. Family RIODINIDAE Grote, [1895] 1827 (metalmarks)

by Jonathan P. Pelham & Gregory R. Pohl

The metalmarks are small to medium-sized butterflies, with wingspans of about 50 mm. Most are colored in browns, orange, and black, and they often rest with their wings spread flat or held angled at 45 degrees. Some species have metallic-colored marks on the wings, hence the common name.

The tribe Emesidini was examined recently by Zhang et al. (2019a), resulting in several new genera, subgenera, and new combinations. About 1,530 described species of metalmarks occur worldwide, primarily in the New World tropics. There are 29 species in the Nearctic region. The Riodinidae were included in the Nearctic butterfly catalog published online recently by Pelham (2022), and the classification in the current work is almost identical.

NOTE: ICZN (1977) Opinion 1073 placed Riodinidae (with the date as given) on the Official List of Family-group Names in Zoology as name no. 484 and placed *Riodina* Westwood, 1851 on the Official List of Generic Names in Zoology as name no. 2039.

Subfamily EUSELASIINAE Kirby, 1871 (excl.)

Genus EUSELASIA Hübner, [1819] (excl.)

77a0664E E. sergia (Godman & Salvin, 1885) (Eurygona) EXCL. [NEW]
NOTE: Excluded from the NA fauna by Pelham (2008); the synonym *abreas* was described from material mislabeled as being from AZ.
abreas (Edwards, 1881) (Eurygona) (excl.) *[4385]*

Subfamily RIODININAE Grote, [1895] 1827

NOTE: The tribal arrangement follows Zhang et al. (2019a).

Tribe RIODININI Grote, [1895] 1827

Genus CARIA Hübner, 1823

77a0665 C. ino (Godman & Salvin, 1886) (Symmachia) extralim. 4396
ssp. a. melicerta Schaus, 1890 (Caria)
domitianus of authors; (not Fabricius, 1793) (Hesperia) misid.
NOTE: The report of this species from TX by De Vries (1997) is assumed to be a misidentification of *C. ino* (Pelham 2008).

Genus BAEOTIS Hübner, [1819]
NOTE: Zhang et al. (2021) determined that *Colaciticus* is a synonym of this genus, and that is adopted herein.
COLACITICUS Stichel, 1910

77a0666 B. zonata Felder, 1869 (Baeotis) [NEW]
NOTE: Reported from AZ by Saba & Winslow (2009).
ssp. a. zonata Felder, 1869 (Baeotis)
libna (Butler, 1870) (Charis)
simbla (Boisduval, 1870) (Mesene)

Genus MELANIS Hübner, [1819]
ACULHUA Kirby, 1871
DRYAS Felder & Felder, 1865
LIMNAS Boisduval, 1836
LYMNAS Blanchard, 1840
OREAS Felder & Felder, 1865
RUSALKIA Kirby, 1871

77a0667 M. pixe (Boisduval, 1836) (Limnas) 4398
ssp. a. pixe (Boisduval, 1836) (Limnas)
gynaeceas (Godman & Salvin, 1889) (Limnas)
sexpunctata (Seitz, 1917) (Lymnas)

Genus CALEPHELIS Grote & Robinson, 1869
LEPHELISCA Barnes & Lindsey, 1922

77a0668 C. borealis (Grote & Robinson, 1866) (Nymphidia) 4387
geda Scudder, 1876 (Calephelis)
77a0669 C. muticum McAlpine, 1937 (Calephelis) 4391
77a0670 C. virginiensis (Guérin-Méneville, [1832]) (Erycinia) 4386
louisiana Holland, 1929 (Calephelis)
pumila (Boisduval & Le Conte, [1835]) (Nymphidia)

77a0671 C. perditalis Barnes & McDunnough, 1918 (Calephelis) 4389
nilus of authors; (not Felder & Felder, 1861) (Charis) misappl.
NOTE: Scott (1986) and Opler (1999) used the name *C. nilus* as the valid name for *C. perditalis*, but herein we treat NA populations under the latter name.
ssp. a. perditalis Barnes & McDunnough, 1918 (Calephelis)
77a0672 C. nemesis (Edwards, 1871) (Charis) 4388
ssp. a. australis (Edwards, 1877) (Charis)
guadeloupe (Strecker, [1878]) (Charis)
ssp. b. nemesis (Edwards, 1871) (Charis)
ssp. c. dammersi McAlpine, 1971 (Calephelis)
californica McAlpine, 1971 (Calephelis)
77a0673 C. arizonensis McAlpine, 1971 (Calephelis) 4394
77a0674E C. dreisbachi McAlpine, 1971 (Calephelis) EXCL. 4395
NOTE: Part of the type material for this species was stated to be from AZ, but the identity of that material is uncertain, and the species was excluded from the NA fauna by Pelham (2008).
77a0675 C. freemani McAlpine, 1971 (Calephelis) 4393
argyrodines of authors; (not Bates, 1866) (Charis) misappl.
NOTE: Prior to the description of *C. freemani* in 1971, historical reports in NA referred to this species as *C. argyrodines*.
77a0676 C. rawsoni McAlpine, 1939 (Calephelis) 4392
77a0677 C. wrighti Holland, 1930 (Calephelis) 4390
77a0678E C. sinaloensis McAlpine, 1971 (Calephelis) EXCL. [NEW]
NOTE: This species was reported from TX, as subspecies *nuevoleon* by Durden (1982, 1990), but that record requires verification and it was excluded from the NA fauna by Pelham (2008).
ssp. a. nuevoleon McAlpine, 1971 (Calephelis) (excl.)

Genus LASAIA Bates, 1868
LASAEA Glaser, 1887
TALITES Capronnier, 1874

Lasaia sessilis group Clench, 1972

77a0679 L. maria Clench, 1972 (Lasaia) [NEW]
ssp. a. maria Clench, 1972 (Lasaia)

Lasaia agesilaus group Clench, 1972

77a0680 L. sula Staudinger, 1888 (Lasaia) extralim. 4397
ssp. a. peninsularis Clench, 1972 (Lasaia)
narses of authors; not Staudinger, 1888 (Lasaia) misappl.
NOTE: This name, a synonym of *L. agesilas* (Latreille, 1809), was used by Barnes & McDunnough (1913) prior to the description of *L. sula peninsularis*. *L. agesilas* does not occur in NA.
sessilis of authors; not Schaus, 1890 (Lasaia) misappl.
NOTE: This name was used by Stallings & Turner (1946) prior to the description of *L. sula peninsularis*. It does not occur in NA (Pelham 2008).

Tribe EMESIDINI Seraphim, Freitas & Kaminski, 2018

Genus CURVIE Grishin, 2019

77a0681 C. emesia (Hewitson, 1867) (Symmachia) STRAY 4401
NOTE: Genus assignment by Zhang et al. (2019a).

Genus APODEMIA Felder & Felder, 1865

Subgenus ROEBERELLA Strand, 1932
PLESIOARIDA Trujano & García, 2018
NOTE: Synonymy of *Pleasioarida* by Zhang et al. (2020).

77a0682 A. hepburni Godman & Salvin, 1886 (Apodemia) 4404
ssp. a. hepburni Godman & Salvin, 1886 (Apodemia)
77a0683 A. palmerii (Edwards, 1870) (Lemonias) 4405
ssp. a. palmerii (Edwards, 1870) (Lemonias)
marginalis (Skinner, 1920) (Lemonias)
ssp. b. arizona Austin, [1989] (Apodemia)
77a0684 A. walkeri Godman & Salvin, 1886 (Apodemia) 4406

Subgenus APODEMIA Felder & Felder, 1865
CHRYSOBIA Boisduval, 1869

77a0685 A. multiplaga Schaus, 1902 (Apodemia) STRAY 4403
77a0686 A. mormo (Felder & Felder, 1859) (Lemonias) 4402
NOTE: Several recent authors (e.g., Forbes 1979; Pratt & Balmer 1991) strongly suggest that this complex, previously considered a single species, includes multiple species-level taxa. However, at this time there is no consensus on species-level boundaries. The arrangement presented here is partly based on studies cited above, as well as Opler & Warren (2002) and Davenport (2004a, 2004b, 2014, 2018), and is tentative.
ssp. a. mormo (Felder & Felder, 1859) (Lemonias)
dumeti (Behr, 1865) (Nemeobius)
mormonia (Boisduval, 1869) (Chrysobia)
ssp. b. parva Austin, 1998 (Apodemia)
ssp. c. autumnalis Austin, 1998 (Apodemia)
ssp. d. cythera (Edwards, 1873) (Lemonias)
ssp. e. tuolumnensis Opler & Powell, 1962 (Apodemia)
ssp. f. langei Comstock, 1939 (Apodemia)
77a0687 A. virgulti (Behr, 1865) (Nemeobius) [NEW]
ssp. a. peninsularis Emmel, Emmel & Pratt, 1998 (Apodemia)
ssp. b. virgulti (Behr, 1865) (Nemeobius)
sonorensis Felder & Felder, 1865 (Apodemia)
ssp. c. arenaria Emmel, Emmel & Pratt, 1998 (Apodemia)
ssp. d. nigrescens Emmel & Emmel, 1998 (Apodemia)
ssp. e. pratti Emmel & Emmel, 1998 (Apodemia)
ssp. f. dialeucoides Emmel, Emmel & Pratt, 1998 (Apodemia)
ssp. g. mojavelimbus Emmel, Emmel & Pratt, 1998 (Apodemia)
ssp. h. davenporti Emmel, Emmel & Pratt, 1998 (Apodemia)
77a0688 A. mejicanus (Behr, 1865) (Nemeobius) [NEW]
ssp. a. mejicanus (Behr, 1865) (Nemeobius)
ssp. b. pueblo Scott, 1998 (Apodemia)
ssp. c. deserti Barnes & McDunnough, 1918 (Apodemia)
77a0689 A. duryi (Edwards, 1882) (Lemonias) [NEW]

Subgenus NEOAPODEMIA Trujano, 2018
POLYSTIGMA Godman & Salvin, 1886

77a0690 A. nais (Edwards, 1877) (Chrysophanus) 4408
77a0691 A. chisosensis Freeman, 1964 (Apodemia) 4409
77a0692E A. hypoglauca (Godman & Salvin, 1878) (Lemonias) EXCL. [NEW]
NOTE: Reported from NA by Glassberg (1999) but its occurrence here has not been verified and it was excluded from the NA fauna by Pelham (2008).
77a0693 A. ares (Edwards, 1882) (Lemonias) 4400
77a0694 A. cleis (Edwards, 1882) (Lemonias) [NEW]
NOTE: Zhang et al. (2022d) raised this taxon from subspecies of the Neotropical species *A. zela*.
zela of authors; (not Butler, 1870) (Emesis) misappl. [4399]

Genus EMESIS [Fabricius, in: Illiger], 1807
NELONE Boisduval, 1870
NIMULA Blanchard, 1840
POLYSTICHTIS Hübner, [1819]
POLYTICHTHIS Agassiz, 1847
TAPINA Billberg, 1820

Subgenus TENEDIA Grishin, 2019

77a0695 E. tenedia Felder & Felder, 1861 (Emesis) STRAY [NEW]
yucatanensis (Godman & Salvin, 1886) (Symmachia)
NOTE: Zhang et al. (2019a) misplaced this synonym under *Curvie emesia*.
77a0696 E. phyciodoides (Barnes & Benjamin, 1924) (Apodemia) UNVER. 4407
NOTE: This species may be extirpated from the USA, present but currently undetected, or the type specimens may have been originally mislabeled; see Holland & Forbes (1981), and Holland (2007). Trujano et al. (2018) determined that *Apodemia phyciodoides* does not belong in *Apodemia*.

75. Family NYMPHALIDAE Rafinesque, 1815 (brush-footed butterflies)

by Jonathan P. Pelham & Gregory R. Pohl

Nearctic nymphalids are medium-sized to large butterflies, with wingspans of about 30 to 70 mm and orange or brown wings with dark markings. Both sexes have forelegs reduced in length and covered in long brushlike hairs, thus the common name of the group. Many nymphalids are strong fliers, and a few species are migratory and number among the most cosmopolitan of insects. The larvae commonly have branched spines. Nymphalid pupae are often strongly angled and bear thornlike projections.

The Nymphalidae contain several subfamilies that were historically treated as separate families (e.g., the former Danaidae, Satyridae, and Heliconiidae). It is the largest family of butterflies, with about 6,150 species worldwide. The Nearctic region contains 243 known species. The Nymphalidae were included in the Nearctic butterfly catalog published online on by Pelham (2022), and the classification in the current work is almost identical.

Subfamily LIBYTHEINAE Boisduval, 1833

Genus LIBYTHEANA Michener, 1943

77a0697 L. carinenta (Cramer, [1777]) (Papilio) extralim. 4411
ssp. a. mexicana Michener, 1943 (Libytheana)
ssp. b. larvata (Strecker, [1878]) (Libythea)
streckeri Austin & Emmel, 1998 (Libytheana)
streckeri (Field, 1938) (Libythea)
ssp. c. bachmanii (Kirtland, 1851) (Libythea) [4410]
kirtlandi (Field, 1938) (Libythea)
77a0698 L. motya (Hübner, [1823]) (Hecaërge) 4412

Subfamily DANAINAE Boisduval, [1833]

Tribe ITHOMIINI Godman & Salvin, [1879] 1878

Subtribe MELINAEINA Clark, 1948 (excl.)

Genus MELINAEA Hübner, 1816 (excl.)

77a0699E M. lilis (Doubleday, 1847) (Mechanitis) EXCL. [NEW]
NOTE: This species was reported as a new NA (TX) record, as subspecies *imitata*, in the 2008 Season Summary of the Lepidopterists' Society (2009). It may have been intentionally released in the USA, and it is treated here as an unestablished introduction. It was excluded from the NA fauna by Pelham (2008, 2022).
ssp. a. imitata Bates, 1864 (Melinaea) (excl.)

Genus PTERONYMIA Butler & Druce, 1872 (excl.)

77a0700E P. cotytto (Guérin-Méneville, [1844]) (Heliconia) EXCL. [NEW]
NOTE: This species was reported as a new NA (TX) record, by Bordelon & Knudson (2006). It may have been intentionally released in the USA, and it is treated here as an unestablished introduction. It was excluded from the NA fauna by Pelham (2008, 2022).

Subtribe GODYRIDINA d'Almeida, 1941 (excl.)

Genus GRETA Hemming, 1934 (excl.)

77a0701E G. polissena (Hewitson, 1863) (Ithomia) EXCL. [NEW]
NOTE: Reports of this species (subspecies *umbrana*) from TX have not been verified, and the species was excluded from the NA fauna by Pelham (2008, 2022).
ssp. a. umbrana (Haensch, 1910) (Hymenitis) (excl.)
77a0702E G. morgane (Geyer, 1833) (Hymenitis) EXCL. [NEW]
NOTE: This species was reported as a new NA (TX) record, by Bordelon & Knudson (2006). It may have been intentionally released in the USA, and it is treated here as an unestablished introduction. It was excluded from the NA fauna by Pelham (2008, 2022).
ssp. b. oto (Hewitson, [1855]) (Ithomia) (excl.)

Subtribe ITHOMIINA Godman & Salvin, [1879] 1878 (excl.)

Genus ITHOMIA Hübner, 1816 (excl.)

77a0703E I. iphianassa Doubleday, 1847 (Ithomia) EXCL. [NEW]
NOTE: NA records of this species as well as the subspecies *anaphissa* and *panamensis* are erroneous. They are based on the TL for the synonym *negreta*, listed in error as "Los Angeles, California". This species is restricted to South America (Pelham 2008).
ssp. a. anaphissa Herrich-Schäffer, 1865 (Ithomia) (excl.)
ssp. b. panamensis Bates, 1863 (Ithomia) (excl.)
negreta (Reakirt, [1866]) (Dynothea) (excl.)

Subtribe DIRCENNINA d'Almeida, 1941

Genus DIRCENNA Doubleday, [1847]

77a0704 D. klugii (Geyer, 1837) (Ceratinia) [NEW]

Subtribe EUPLOEINA Moore, 1880

Genus LYCOREA Doubleday, 1847
ITUNA Doubleday, 1847
LYCORELLA Hemming, 1933

77a0705 L. halia (Hübner, 1816) (Eueides) extralim.; STRAY [NEW]
ssp. a. demeter Felder & Felder, 1865 (Lycorea) (stray)
ssp. b. atergatis Doubleday, 1847 (Lycorea) (stray)
ssp. c. cleobaea (Godart, 1819) (Heliconia) (excl.) [4617]
NOTE: This extralimital subspecies was listed as a valid species by Miller & Brown (in Hodges et al. 1983). It was excluded from the NA fauna by Pelham (2008).
ssp. d. pales Felder & Felder, 1862 (Lycorea) (excl.)
NOTE: This South American subspecies was listed in error for NA by Dyar (1903).

Tribe DANAINI Boisduval, [1833]

Subtribe DANAINA Boisduval, [1833]

Genus DANAUS Kluk, 1780

Subgenus DANAUS Kluk, 1780
DANAIDA Latreille, 1804
DANAIS Latreille, 1807
DANAUS Latreille, 1809
DIOGAS d'Almeida, 1938
FESTIVUS Crotch, 1872

77a0706 D. plexippus (Linnaeus, 1758) (Papilio) 4614
NOTE: The names *D. erippus* and *D. menippe* were used by Forbes (1960).
erippus of authors; (not Cramer, [1775]) (Papilio) misappl.
menippe of authors; (not Hübner, 1816) (Danais) misappl.
ssp. a. plexippus (Linnaeus, 1758) (Papilio)
alba Scott, 1981 (Danaus)
americanus Gunder, 1927 (Danaus)
archippus (Fabricius, 1793) (Papilio)
asclepiadis (Fabricius, 1938) (Euploea)
curassavicae Bryk, 1937 (Danaus)
curassavicae (Fabricius, 1938) (Euploea)
fumosus (Hulst, 1886) (Danais)
misippiformis (Meuschen, 1781) (Papilio)
nivosus Gunder, 1927 (Danaus)
pulchra (Strecker, 1900) (Danais)

ssp. b. nigrippus (Haensch, 1909) (Danais) (excl.)
NOTE: This South American subspecies was reported in error from NA by Clark & Clark (1938).

77a0707 D. eresimus (Cramer, [1777]) (Papilio) extralim. 4616
ssp. a. montezuma Talbot, 1943 (Danaus)
ares (d'Almeida, 1944) (Anosia)
nephele Forbes, [1944] (Danaus)
ssp. b. tethys Forbes, [1944] (Danaus)

Subgenus ANOSIA Hübner, 1816
DANAOMORPHA Kremky, 1925
LIMNAS Hübner, [1806]
PANLYMNAS Bryk, 1937
TASITIA Moore, 1883

77a0708 D. gilippus (Cramer, [1775]) (Papilio) extralim. 4615
ssp. a. berenice (Cramer, [1779]) (Papilio)
ssp. b. thersippus (Bates, 1863) (Danais)
esperanza (Hoffmann, 1924) (Danais)
gilippina (Hoffmann, 1940) (Anosia)
kerri (Comstock, 1925) (Danais)
strigosus (Bates, 1864) (Danais)
ssp. c. cleothera (Godart, [1819]) (Danais) (excl.)
NOTE: Reported from NA by Clark (1941), but this subspecies is restricted to the Antilles (Pelham 2008).
ssp. d. jamaicensis Bates, 1864 (Danaus) (excl.)
NOTE: Reported from FL by Clark (1941), but that specimen is presumed to be mislabeled; this subspecies is restricted to Jamaica (Pelham 2008).

Subfamily HELICONIINAE Swainson, 1822

Tribe HELICONIINI Swainson, 1822

Subtribe HELICONIINA Swainson, 1822

Genus DRYAS Hübner, [1807]
ALCIONEA Rafinesque, 1815
COLAENIS Hübner, [1819]

77a0709 D. iulia (Fabricius, 1775) (Papilio) extralim. 4416
NOTE: Pelham (2022) incorrectly removed *D. iulia* from the NA checklist; *D. iulia largo* was described from FL.
julia; [various, no date] (Dryas) missp.
ssp. a. largo Clench, 1975 (Dryas)
ssp. b. carteri (Riley, 1926) (Colaenis) (excl.)
NOTE: This Bahamian subspecies was reported in error from NA by Bates (1934).
ssp. c. nudeola (Bates, 1934) (Colaenis) (excl.)
NOTE: This Cuban subspecies was reported in error from NA by Bates (1934).

77a0710 D. alcionea (Cramer, [1779]) (Papilio) extralim. [NEW]
NOTE: Núñez et al. (2022) determined that *D. alcionea* is a species distinct from *D. iulia*, and transferred the subspecies *moderata* to it. This represents TX populations of *Dryas* in NA.
titio (Stichel, [1908]) (Colaenis)
ssp. a. moderata (Riley, 1926) (Colaenis)
moderata (Stichel, [1908]) (Colaenis)

Genus DRYADULA Michener, 1942

77a0711 D. phaetusa (Linnaeus, 1758) (Papilio) STRAY 4415
deleta (Stichel, [1908]) (Colaenis)
lutulenta (Stichel, [1908]) (Colaenis)
stupenda (Stichel, [1908]) (Colaenis)

Genus PHILAETHRIA Billberg, 1820

77a0712 P. diatonica (Fruhstorfer, 1912) (Metamandana) UNVER. [NEW]
NOTE: Report of this species as *P. dido* by Bordelon (1991) has not been verified (Pelham 2008).
dido (Linnaeus, 1763) (Papilio)

Genus EUEIDES Hübner, 1816
EVIDES Agassiz, 1847
MECHANITIS [Illiger], 1807
SEMELIA Boisduval, 1870
SEMELIA Doubleday, [1845]
SEMELIA Erichson, [1849]

77a0713 E. isabella (Stoll, in: Cramer, [1781]) (Papilio) extralim.; STRAY 4417
ssp. a. eva (Fabricius, 1793) (Papilio) (stray)
adusta Stichel, 1903 (Eueides)
zorcaon Reakirt, 1866 (Eueides)

77a0714E E. polymnia (Linnaeus, 1758) (Papilio) EXCL. [NEW]
NOTE: The synonym *californica* of subspecies *E. polymnia isthmia* was described from Panamanian specimens mislabeled as being from "Los Angeles, California". "True" *E. polymnia* does not occur in NA.
ssp. a. isthmia (Bates, 1863) (Mechanitis) (excl.)
californica (Reakirt, 1866) (Mechanitis) (excl.)

Genus HELICONIUS Kluk, 1780
AJANTIS Hübner, 1816
APOSTRAPHIA Hübner, 1816
BLANCHARDIA Buchecker, [1880]
CRENIS Hübner, 1821
HELICONIA Latreille, 1818
HELICONIUS Latreille, [1804]
LAPARUS Billberg, 1820
MIGONITIS Hübner, 1816
PHLOGRIS Hübner, [1825]
SICYONIA Hübner, 1816
SUNIAS Hübner, 1816
SYCIONIA Hübner, [1826]

77a0715 H. charithonia (Linnaeus, 1767) (Papilio) extralim. 4418
ssp. a. tuckeri Comstock & Brown, 1950 (Heliconius)
ssp. b. vazquezae Comstock & Brown, 1950 (Heliconius)

77a0716 H. erato (Linnaeus, 1758) (Papilio) extralim.; STRAY 4419
ssp. a. petiverana (Doubleday, 1847) (Heliconia) (stray)
mexicana (Boisduval, 1870) (Heliconia)
petiverea Riffarth, 1901 (Heliconius)

Genus DIONE Hübner, [1819]
NOTE: Zhang et al. (2019b) relegated *Agraulis* to subgenus status within *Dione*. That was not recognized by Núñez et al. (2022) who treated *Dione* and *Agraulis* as separate genera. We continue to follow the former here, and treat *Agraulis* and *Dione* as subgenera.

Subgenus AGRAULIS Boisduval & Le Conte, [1835]

77a0717 D. incarnata Riley, 1926 (Dione) [NEW]
NOTE: The taxon *incarnata* was raised to species status by Zhang et al. (2020), and this was confirmed by Núñez et al. (2022). Prior to that, the species was known in NA as *D. vanillae*. "True" *D. vanillae* does not occur in NA.
vanillae of authors; (not Linnaeus, 1758) (Papilio) misappl. *[4413]*
ssp. a. nigrior (Michener, 1942) (Agraulis)
ssp. b. incarnata Riley, 1926 (Dione)
comstocki Gunder, 1925 (Dione)
fumosus Gunder, 1927 (Dione)
hewlettae Gunder, 1930 (Dione)
margineapertus Gunder, 1928 (Dione)

77a0718 D. moneta Hübner, [1825] (Dione) extralim. 4414
ssp. a. poeyii Butler, 1873 (Dione)
butleri Stichel, [1908] (Dione)

77a0719 D. juno (Cramer, [1779]) (Papilio) extralim. [NEW]
NOTE: Subspecies *huascuma* was reported from TX by Bordelon (2013).
ssp. a. huascuma (Reakirt, 1866) (Agraulis)

Tribe ARGYNNINI Swainson, 1833

Subtribe EUPTOIETINA Simonsen, 2006

Genus EUPTOIETA Doubleday, 1848

77a0720 E. claudia (Cramer, [1775]) (Papilio) 4447
albaclaudia Field, 1936 (Euptoieta)
clausius (Herbst, 1798) (Papilio)
daunius (Herbst, 1798) (Papilio)
dodgei Gunder, 1927 (Euptoieta)
fumosa Field, 1936 (Euptoieta)
mariamne Scudder, 1889 (Euptoieta)
thais (Doubleday, 1848) (Papilio)

77a0721 E. hegesia (Cramer, [1779]) (Papilio) extralim. 4448
ssp. a. meridiania Stichel, 1938 (Euptoieta)
hoffmanni Comstock, 1944 (Euptoieta)

Subtribe ARGYNNINA Swainson, 1833

Genus BOLORIA Moore, 1900

Subgenus BOLORIA Moore, 1900
SMOLJANA Slivov, 1995

77a0722 B. alaskensis (Holland, 1900) (Brenthis) [NEW]
napaea of authors; (not Hübner, [1826]) (Argynnis) misappl. *[4462]*
NOTE: The Palaearctic name *B. napaea* has been used by many workers for this species, but we follow Pelham (2008) in recognizing NA populations as *B. alaskensis*, following Crosson du Cormier (1977).
ssp. a. alaskensis (Holland, 1900) (Brenthis)
nearctica Verity, 1932 (Boloria)
reiffi Reuss, 1925 (Boloria)
ssp. b. halli Klots, 1940 (Boloria)

Subgenus PROCLOSSIANA Reuss, 1926

77a0723 B. eunomia (Esper, 1800) (Papilio) extralim. H 4463
aphirape (Hübner, [1800]) (Papilio) (excl.)
ssp. a. triclaris (Hübner, [1821]) (Argynnis)
lais (Scudder, 1875) (Argynnis)
ssp. b. dawsoni (Barnes & McDunnough, 1916) (Brenthis)
harperi (Gunder, 1934) (Brenthis)
ssp. c. nichollae (Barnes & Benjamin, 1926) (Brenthis)
ssp. d. denali (Klots, 1940) (Brenthis)
ssp. e. ursadentis Ferris & Groothuis, 1971 (Boloria)
ssp. f. laddi (Klots, 1940) (Clossiana)
ssp. g. caelestis (Hemming, 1933) (Argynnis)
alticola (Barnes & McDunnough, 1913) (Brenthis)

Subgenus CLOSSIANA Reuss, 1920

Boloria freija group Gorbunov, 2001

77a0724 B. freija (Thunberg, 1791) (Papilio) H 4471
ssp. a. freija (Thunberg, 1791) (Papilio)
freya (Godart, 1819) (Argynnis)
gunderi (Harper, 1933) (Brenthis)
jakutensis (Wnukowsky, 1927) (Argynnis)
lapponica (Esper, [1793]) (Papilio)
zamolodchikovi (Churkin, 2001) (Clossiana)
ssp. b. tarquinius (Curtis, 1835) (Melitaea)
ssp. c. browni (Higgins, 1953) (Clossiana)
77a0725E B. euphrosyne (Linnaeus, 1758) (Papilio) EXCL. [NEW]
NOTE: Reports of this species from NA are incorrect, based on erroneous type localities. The synonym *andersoni*, tentatively placed here as a synonym of *B. euphrosyne*, was described from "Kootenay, BC", apparently based on mislabeled specimens. The synonym *morrisii* was described from "California" in error (Pelham 2008).
andersoni Dyar, 1904 (Boloria) (excl.)
morrisii (Reakirt, 1866) (Brenthis) (excl.)
77a0726 B. natazhati (Gibson, 1920) (Brenthis) [NEW]
ssp. a. natazhati (Gibson, 1920) (Brenthis)
ssp. b. nabokovi Stallings & Turner, 1947 (Boloria)
ssp. c. bankslandia Shepard, 1998 (Boloria)

Boloria titania group Simonsen et al., 2010

77a0727 B. chariclea (Schneider, 1794) (Papilio) extralim. H 4475
churchilea; (dos Passos, 1964) (Clossiana) missp.
churiclea; (Johansen, 1921) (Clossiana) missp.
titania of authors; (not Esper, [1793]) (Papilio) misappl. *[4474]*
NOTE: Old World name used in NA under a previous taxonomic concept. The NA species is *B. chariclea* (Pike [1981]).
ssp. a. montinus (Scudder, 1863) (Argynnis)
ssp. b. boisduvalii (Duponchel, 1832) (Argynnis)
labradorensis (Gunder, 1928) (Brenthis)
oenone (Scudder, 1875) (Argynnis)
ssp. c. arctica (Zetterstedt, 1839) (Argynnis)
obscurata (M'Lachlan, 1878) (Argynnis)
tullia (Fabricius, 1780) (Papilio)
ssp. d. grandis (Barnes & McDunnough, 1916) (Brenthis)
ssp. e. butleri (Edwards, 1883) (Argynnis)
tshuktsha (Dubatolov & Korshunov, 1998) (Clossiana)
ssp. f. rainieri (Barnes & McDunnough, 1913) (Brenthis)
ssp. g. ingens (Barnes & McDunnough, 1918) (Brenthis)
martini (Gunder, 1934) (Brenthis)
ssp. h. helena (Edwards, 1871) (Argynnis)
sangredecristo Scott, 1981 (Boloria)

Boloria bellona group Simonsen et al., 2010

77a0728 B. improba (Butler, 1877) (Argynnis) 4467
ssp. a. improba (Butler, 1877) (Argynnis)
ssp. b. youngi (Holland, 1900) (Brenthis)
ssp. c. nunatak Scott, 1998 (Boloria)
ssp. d. harryi (Ferris, 1984) (Clossiana)
ssp. e. acrocnema Gall & Sperling, 1980 (Boloria)
77a0729 B. kriemhild (Strecker, 1879) (Argynnis) 4468
laurenti (Skinner, 1913) (Argynnis)
luecki (Reuss, 1923) (Clossiana)
77a0730 B. epithore (Edwards, 1864) (Argynnis) 4469
ssp. a. epithore (Edwards, 1864) (Argynnis)
epithore (Boisduval, 1869) (Argynnis)
ssp. b. sierra Perkins, 1973 (Boloria)
eldorada (Strand, 1915) (Brenthis)
wawonae (Gunder, 1924) (Brenthis)
ssp. c. chermocki Perkins & Perkins, 1966 (Boloria)
borealis Perkins, 1973 (Boloria)
obscuripennis (Gunder, 1926) (Brenthis)
uslui Koçak, 1984 (Boloria)
ssp. d. sigridae (Shepard, 2001) (Clossiana)
77a0731 B. bellona (Fabricius, 1775) (Papilio) 4465
ssp. a. bellona (Fabricius, 1775) (Papilio)
ammiralis (Hemming, 1933) (Argynnis)
fasciata (Cockerell, 1889) (Argynnis)
kleenei (Watson, 1921) (Brenthis)
pardopsis (Holland, 1928) (Brenthis)
ssp. b. toddi (Holland, 1928) (Brenthis)
ssp. c. jenistai Stallings & Turner, 1947 (Boloria)
77a0732 B. frigga (Thunberg, 1791) (Papilio) extralim. H 4466
ssp. a. saga (Staudinger, 1861) (Argynnis)
ssp. b. gibsoni (Barnes & Benjamin, 1926) (Brenthis)
alaskensis (Lehmann, 1913) (Argynnis)
kosarevi Korb, 2011 (Boloria)
lehmanni (Holland, 1928) (Brenthis)
ssp. c. sagata (Barnes & Benjamin, 1923) (Brenthis)
77a0733E B. dia (Linnaeus, 1767) (Papilio) EXCL. [NEW]
NOTE: The synonym *nenoquis* was described from "California" based on mislabeled material; *B. dia* is restricted to the Old World (Pelham 2008).
nenoquis (Reakirt, 1866) (Brenthis) (excl.)

Boloria selene group Gorbunov, 2001

77a0734 B. myrina (Cramer, [1777]) (Papilio) [NEW]
selene of authors; (not [Denis & Schiffermüller], 1775) (Papilio) misappl. *[4464]*
NOTE: NA populations were treated by Kondla & Schmidt (in Pohl et al. 2010; Appendix) as distinct from Eurasian *B. selene*, and that was corroborated via genetic analysis by Zhang et al. (2022d).
ssp. a. myrina (Cramer, [1777]) (Papilio)
gunderana (Forbes, 1960) (Brenthis)
marilandica (Clark, 1941) (Brenthis)
myrissa (Godart, [1824]) (Argynnis)
nivea (Gunder, 1928) (Brenthis)
nubes (Scudder, 1889) (Brenthis)
ssp. b. nebraskensis (Holland, 1928) (Brenthis)
ssp. c. sabulocollis Kohler, 1977 (Boloria)
ssp. d. tollandensis (Barnes & Benjamin, 1925) (Brenthis)
ssp. e. albequina (Holland, 1928) (Brenthis)
baxteri (Holland, 1928) (Brenthis)
ssp. f. atrocostalis (Huard, 1927) (Argynnis)
jenningsae (Holland, 1928) (Brenthis)
serratimarginata (Gunder, 1926) (Brenthis)
ssp. g. terraenovae (Holland, 1928) (Brenthis) emend.

Boloria tritonia group Simonsen et al., 2010

77a0735 B. astarte (Doubleday, [1847]) (Melitaea) 4473
tritonia of authors; (not Böber, 1812) (Argynnis) misappl.
NOTE: Guppy and Shepard (2001) considered *B. astarte* to be part of a Holarctic concept of *B. tritonia*, but that is not accepted herein.
ssp. a. astarte (Doubleday, 1847) (Melitaea)
victoria (Edwards, 1891) (Argynnis)

ssp. b. distincta (Gibson, 1920) (Brenthis)
ssp. c. tschukotkensis (Wyatt, 1961) (Clossiana)
ershovi (Korshunov & Gorbunov, 1995) (Clossiana)
suntara (Korshunov, 1998) (Clossiana)

Boloria polaris group Simonsen et al., 2010

77a0736 B. polaris (Boisduval, [1828]) (Argynnis) H 4470
ssp. a. polaris (Boisduval, [1828]) (Argynnis)
americana (Strand, 1905) (Argynnis)
digna (Churkin, 2001) (Clossiana)
gronlandica ([Skinner], 1892) (Argynnis)
homeyeri (Pagenstecher, 1902) (Argynnis)
kurenzovi Wyatt, 1961 (Boloria)
ssp. b. stellata Masters, 1972 (Boloria)

77a0737 B. alberta (Edwards, 1890) (Argynnis) 4472
banffensis (Gunder, 1932) (Brenthis)

Genus ARGYNNIS [Fabricius, in: Illiger], 1807
NOTE: Simonsen (2006) and Simonsen et al. (2006) made compelling arguments that *Speyeria* is a subgenus of *Argynnis*. Zhang et al. (2020) completed the task and that is adopted here.
ACIDALIA Hübner, [1819]
ARGYREUS Scopoli, 1777
ARGYRONOME Hübner, [1819]
CHILDRENA Hemming, 1943
DAMORA Nordmann, 1851
EUDAPHNE Reuss, 1922
EUDRYAS Reuss, 1926
FABRICIANA Reuss, 1920
MESODRYAS Reuss, 1927
MIMARGYRA Reuss, 1922
NEPHARGYNNIS Shirôzu & Saigusa, 1973
PANDORIANA Warren, 1942
PRODRYAS Reuss, 1926
PROTODRYAS Reuss, 1928

Subgenus SPEYERIA Scudder, 1872
MESOACIDALIA Reuss, 1926
NEOACIDALIA Reuss, 1926
PROACIDALIA Reuss, 1926
SEMNOPSYCHE Scudder, 1875

77a0738 A. idalia (Drury, 1773) (Nymphalis) 4452
ssp. a. idalia (Drury, 1773) (Nymphalis)
ashtaroth Fisher, [1860] (Argynnis)
astarte Fisher, [1859] (Argynnis)
dolli Gunder, 1927 (Argynnis)
infumata Oberthür, 1912 (Argynnis)
ssp. b. occidentalis (Williams, 2002) (Speyeria)
pallida Eisner, 1942 (Argynnis)

77a0739 A. diana (Cramer, [1777]) (Papilio) 4449
ssp. a. diana (Cramer, [1777]) (Papilio)
ssp. b. arkansana Pavulaan, 2021 (Argynnis)
NOTE: Recently recognized subspecies (Pavulaan 2021).

77a0740 A. nokomis Edwards, 1862 (Argynnis) 4453
ssp. a. coerulescens Holland, 1900 (Argynnis)
ssp. b. nitocris Edwards, 1874 (Argynnis)
ssp. c. nokomis Edwards, 1862 (Argynnis)
nigrocaerulea Cockerell & Cockerell, 1900 (Argynnis)
rufescens Cockerell, 1909 (Argynnis)
tularosa Holland, 2010 (Argynnis)
valesinoidesalba (Reuss, [1926]) (Acidalia) unavail.
ssp. d. apacheana Skinner, 1918 (Argynnis)
hermosa Comstock, 1925 (Argynnis)
ssp. e. carsonensis (Austin, 1998) (Speyeria)
ssp. f. wenona (dos Passos & Grey, 1964) (Speyeria) (excl.)
NOTE: This Mexican subspecies was reported from NA in error by dos Passos (1964) and Howe (1975).

77a0741 A. cybele (Fabricius, 1775) (Papilio) 4450
ssp. a. cybele (Fabricius, 1775) (Papilio)
baal Strecker, 1878 (Argynnis)
daphnis (Cramer, [1775]) (Papilio)
ssp. b. novascotiae McDunnough, 1935 (Argynnis)
ssp. c. krautwurmi Holland, 1931 (Argynnis)
ssp. d. pseudocarpenteri Chermock & Chermock, 1940 (Argynnis)
ssp. e. carpenterii Edwards, 1876 (Argynnis)
ssp. f. charlottii Barnes, 1897 (Argynnis)
ssp. g. neomexicana Grishin, 2022 (Argynnis)
NOTE: Recently described by Zhang et al. (2022d) after the publication of Pelham (2022).

77a0742 A. leto Behr, 1862 (Argynnis) [NEW]
NOTE: Kondla & Schmidt (in Pohl et al. 2010; Appendix) raised this taxon to full species status, distinct from *A. cybele*. That was corroborated via genetic analysis by Zhang et al. (2022d), who also transferred subspecies *letona*, *pugetensis*, and *eileenae* from *A. cybele* to *A. leto*.
ssp. a. letona (dos Passos & Grey, 1945) (Speyeria)
valesinoidesalba (Reuss, [1926]) (Acidalia) unavail.
ssp. b. leto Behr, 1862 (Argynnis)
lethe Gunder, 1934 (Argynnis)
letis Wright, 1905 (Argynnis)
ssp. c. pugetensis (Chermock & Frechin, 1947) (Speyeria)
ssp. d. eileenae (Emmel, Emmel & Mattoon, 1998) (Speyeria)

77a0743 A. aphrodite (Fabricius, 1787) (Papilio) 4451
ssp. a. cullasaja (Gatrelle, 1998) (Speyeria)
ssp. b. aphrodite (Fabricius, 1787) (Papilio)
bakeri Clark, 1932 (Argynnis)
bartschi Reiff, 1910 (Argynnis)
hughi (Clark & Clark, 1951) (Speyeria)
ssp. c. alcestis Edwards, [1877] (Argynnis)
suffusa Wolcott, 1916 (Argynnis)
ssp. d. ethne Hemming, 1933 (Argynnis)
cypris Edwards, 1886 (Argynnis)
ssp. e. byblis (Barnes & Benjamin, 1926) (Dryas)
ssp. f. columbia Edwards, 1877 (Argynnis)
columbia Edwards, 1878 (Argynnis)
ssp. g. whitehousei Gunder, 1932 (Argynnis)
ssp. h. manitoba Chermock & Chermock, 1940 (Argynnis)
mayae (dos Passos & Grey, 1947) (Speyeria)
mayae Gunder, 1932 (Argynnis)
ssp. i. winni Gunder, 1932 (Argynnis)

77a0744 A. coronis Behr, 1864 (Argynnis) 4455
ssp. a. carolae dos Passos & Grey, 1942 (Argynnis)
NOTE: Emmel & Austin (in Emmel 1998) determined that *carolae* was a distinct species. Zhang et al. (2020) revised it to a subspecies of *A. coronis*.
ssp. b. semiramis Edwards, 1886 (Argynnis)
bernardensis Gunder, 1933 (Argynnis)
ssp. c. hennei Gunder, 1934 (Argynnis)
ssp. d. coronis Behr, 1864 (Argynnis)
californica Skinner, 1917 (Argynnis)
ssp. e. simaetha (dos Passos & Grey, 1945) (Speyeria)
ssp. f. snyderi Skinner, 1897 (Argynnis)
ssp. g. halcyone Edwards, [1869] (Argynnis)

77a0745 A. zerene Boisduval, 1852 (Argynnis) 4456
ssp. a. sitka (Hammond, Harry & McCorkle, 2001) (Speyeria)
ssp. b. bremnerii Edwards, 1872 (Argynnis)
sordida Wright, 1905 (Argynnis)
ssp. c. hippolyta Edwards, 1879 (Argynnis)
ssp. d. gloriosa (Moeck, 1957) (Speyeria)
ssp. e. behrensii Edwards, 1869 (Argynnis)
ssp. f. sonomensis (Emmel, Emmel & Mattoon, 1998) (Speyeria)
ssp. g. puntareyes (Emmel & Emmel, 1998) (Speyeria)
ssp. h. myrtleae (dos Passos & Grey, 1945) (Speyeria)
ssp. i. monticola Behr, 1863 (Argynnis)
ssp. j. malcolmi Comstock, 1920 (Argynnis)
ssp. k. atossa Edwards, 1890 (Argynnis)
NOTE: Zhang et al. (2020) demonstrated that this taxon and its synonym *tejonica* belongs with *A. zerene*.
sineargentatus Gunder, 1927 (Argynnis)
tejonica Comstock, 1925 (Argynnis)
ssp. l. zerene Boisduval, 1852 (Argynnis)
conchyliatus Comstock, 1925 (Argynnis)
shastaensis Comstock, 1925 (Argynnis)
ssp. m. gunderi Comstock, 1925 (Argynnis)
cynna (dos Passos & Grey, 1945) (Speyeria)
ssp. n. picta McDunnough, 1924 (Argynnis)
garretti Gunder, 1932 (Argynnis)
ssp. o. platina Skinner, 1897 (Argynnis)
pfoutsi Gunder, 1933 (Argynnis)
ssp. p. sinope (dos Passos & Grey, 1945) (Speyeria)

77a0746 A. callippe Boisduval, 1852 (Argynnis) 4457
ssp. a. adiasteoides (Emmel, Emmel & Mattoon, 1998) (Speyeria)

ssp. b. liliana Edwards, 1877 (Argynnis)
baroni Edwards, 1881 (Argynnis)
ssp. c. callippe Boisduval, 1852 (Argynnis)
ssp. d. comstocki Gunder, 1925 (Argynnis)
creelmani Gunder, 1934 (Argynnis)
ssp. e. macaria Edwards, 1877 (Argynnis)
ssp. f. laurina Wright, 1905 (Argynnis)
wrighti Wright, 1905 (Argynnis)
ssp. g. rupestris Behr, 1863 (Argynnis)
ssp. h. inornata Edwards, 1872 (Argynnis)
ssp. i. juba Boisduval, 1869 (Argynnis)
laura Edwards, 1879 (Argynnis)
sierra (dos Passos & Grey, 1945) (Speyeria)
ssp. j. hagemani (Emmel, Emmel & Mattoon, 1998) (Speyeria)
ssp. k. shasta (Emmel, Emmel & Mattoon, 1998) (Speyeria)
ssp. l. elaine (dos Passos & Grey, 1945) (Speyeria)
ssp. m. semivirida McDunnough, 1924 (Argynnis)
ssp. n. chilcotinensis (Guppy & Shepard, 2001) (Speyeria)
ssp. o. nevadensis Edwards, 1870 (Argynnis)
ssp. p. harmonia (dos Passos & Grey, 1945) (Speyeria)
ssp. q. calgariana McDunnough, 1924 (Argynnis)
ssp. r. gallatini McDunnough, 1929 (Argynnis)
ssp. s. meadii Edwards, 1872 (Argynnis)
gerhardi Gunder, 1927 (Argynnis)

77a0747 A. egleis Behr, 1862 (Argynnis) 4458
ssp. a. tehachapina Comstock, 1920 (Argynnis)
ssp. b. egleis Behr, 1862 (Argynnis)
astarte Edwards, 1864 (Argynnis)
boharti Gunder, 1930 (Argynnis)
egleis Boisduval, 1869 (Argynnis)
mammothi Gunder, 1924 (Argynnis)
montivaga Behr, 1863 (Argynnis)
ssp. c. oweni Edwards, 1892 (Argynnis)
ssp. d. mattooni (Emmel & Emmel, 1998) (Speyeria)
ssp. e. yolaboli (Emmel & Emmel, 1998) (Speyeria)
ssp. f. moecki (Hammond & Dornfeld, 1983) (Speyeria)
ssp. g. toiyabe (Howe, 1975) (Speyeria)
ssp. h. reidi (Austin, 1998) (Speyeria)
ssp. i. linda dos Passos & Grey, 1942 (Argynnis)
ssp. j. utahensis Skinner, 1919 (Argynnis)
ssp. k. secreta (dos Passos & Grey, 1945) (Speyeria)
ssp. l. macdunnoughi Gunder, 1932 (Argynnis)
ssp. m. morrellensis (Kohler, 2020) (Speyeria)
ssp. n. kutoyisiks (Kohler, 2020) (Speyeria)
ssp. o. albrighti Gunder, 1932 (Argynnis)

77a0748 A. adiaste Edwards, 1864 (Argynnis) [NEW]
ssp. a. adiaste Edwards, 1864 (Argynnis)
adiante Boisduval, 1869 (Argynnis)
ssp. b. clemencei Comstock, 1925 (Argynnis)

77a0749 A. hydaspe Boisduval, 1869 (Argynnis) 4460
ssp. a. viridicornis Comstock, 1925 (Argynnis)
ssp. b. hydaspe Boisduval, 1869 (Argynnis)
caliginosa Comstock, 1925 (Argynnis)
purpurascens Edwards, 1877 (Argynnis)
ssp. c. tehama (Emmel, Emmel & Mattoon, 1998) (Speyeria)
ssp. d. davisi (Emmel, Emmel & Mattoon, 1998) (Speyeria)
ssp. e. rhodope Edwards, 1874 (Argynnis)
sakuntala Skinner, 1911 (Argynnis)
skinneri Holland, 1931 (Argynnis)
ssp. f. minor (dos Passos & Grey, 1947) (Speyeria)
gregsoni Gunder, 1932 (Argynnis)
minor McDunnough, 1927 (Argynnis)

77a0750 A. atlantis Edwards, 1862 (Argynnis) 4459
ssp. a. brittanae Pavulaan, 2022 (Argynnis)
ssp. b. atlantis Edwards, 1862 (Argynnis)
chemo Scudder, 1889 (Argynnis)
ssp. c. canadensis dos Passos, 1935 (Argynnis)
ssp. d. hollandi Chermock & Chermock, 1940 (Argynnis)
ssp. e. pahasapa (Spomer, Scott & Kondla, 1998) (Speyeria)
ssp. f. sorocko (Scott, Kondla & Spomer, 1998) (Speyeria)

77a0751 A. hesperis Edwards, 1864 (Argynnis) [NEW]
NOTE: This taxon was treated as a species-level taxon by Scott et al. (1998) and other recent authors, and corroborated by Zhang et al. (2020).
ssp. a. hutchinsi (dos Passos & Grey, 1947) (Speyeria)
hutchinsi Gunder, 1932 (Argynnis)
ssp. b. dennisi (dos Passos & Grey, 1945) (Speyeria)
dennisi Gunder, 1927 (Argynnis)
helena (dos Passos & Grey, 1957) (Speyeria)
lais Edwards, [1884] (Argynnis)
ssp. c. lurana (dos Passos & Grey, 1945) (Speyeria)
ssp. d. beani (Barnes & Benjamin, 1926) (Dryas)
ssp. e. brico (Kondla, Scott & Spomer, 1998) (Speyeria)
ssp. f. hesperis Edwards, 1864 (Argynnis)
ssp. g. ratonensis (Scott, 1981) (Speyeria)

77a0752 A. irene Boisduval, 1869 (Argynnis) [NEW]
NOTE: Zhang et al. (2020) elevated *A. irene* to species level. That was corroborated by Campbell et al. (2022) and is adopted herein.
ssp. a. irene Boisduval, 1869 (Argynnis)
ssp. b. hanseni (Emmel, Emmel & Mattoon, 1998) (Speyeria)
ssp. c. cottlei Comstock, 1925 (Argynnis)
ssp. d. dodgei Gunder, 1931 (Argynnis)

77a0753 A. nausicaa Edwards, 1874 (Argynnis) [NEW]
NOTE: Zhang et al. (2020) elevated *A. nausicaa* to species level. That was corroborated by Campbell et al. (2022) and is adopted herein.
ssp. a. elko (Austin, 1984) (Speyeria)
ssp. b. greyi (Moeck, 1950) (Speyeria)
ssp. c. viola (dos Passos & Grey, 1945) (Speyeria)
ssp. d. tetonia (dos Passos & Grey, 1945) (Speyeria)
conquista (dos Passos & Grey, 1945) (Speyeria)
NOTE: As noted by Ferris & Brown (1981), this taxon has not been recorded from NM since the description of this taxon; the types are therefore assumed to be mislabeled. Zhang et al. (2020) determined that the holotype "clusters closely" with the holotype of *tetonia* and is placed here on that evidence.
ssp. e. chitone Edwards, 1879 (Argynnis)
wasatchia (dos Passos & Grey, 1945) (Speyeria)
NOTE: This taxon was considered to be a synonym of *A. n. chitone* by Hammond (1991) (as *S. atlantis chitone*), and a synonym of *A. n. tetonia* by Scott et al. (1998) (as *S. tetonia*), where *tetonia* was given priority over *wasatchia*.
ssp. f. schellbachi (Garth, 1949) (Speyeria)
ssp. g. electa Edwards, 1878 (Argynnis)
cornelia Edwards, 1892 (Argynnis)
nikias Ehrmann, 1917 (Argynnis)
ssp. h. dorothea (Moeck, 1947) (Speyeria)
ssp. i. capitanensis (Holland, 1988) (Speyeria)
ssp. j. nausicaa Edwards, 1874 (Argynnis)
arizonensis Elwes, 1889 (Argynnis)

77a0754 A. edwardsii Reakirt, 1866 (Argynnis) 4454
edonis Gunder, 1934 (Argynnis)
montana (Reuss, 1927) (Acidalia)

77a0755 A. mormonia Boisduval, 1869 (Argynnis) 4461
ssp. a. mormonia Boisduval, 1869 (Argynnis)
arge Strecker, 1878 (Argynnis)
astarte Edwards, 1862 (Argynnis)
montivaga Behr, 1864 (Argynnis)
ssp. b. obsidiana (Emmel, Emmel & Mattoon, 1998) (Speyeria)

77a0756 A. bischoffii Edwards, 1870 (Argynnis) [NEW]
NOTE: Zhang et al. (2022d) elevated *A. bischoffi* to species status, from subspecies of *A. mormonia*, and moved most *mormonia* subspecies to *bischoffi* as listed below.
ssp. a. bischoffii Edwards, 1870 (Argynnis)
ssp. b. opis Edwards, 1874 (Argynnis)
jesmondensis (dos Passos & Grey, 1947) (Speyeria)
jesmondensis McDunnough, 1940 (Argynnis)
ssp. c. washingtonia Barnes & McDunnough, 1913 (Argynnis)
rainierensis; (Miller & Brown, 1981) (Speyeria) emend.
ranierensis Gunder, 1932 (Argynnis)
ssp. d. erinna Edwards, 1883 (Argynnis)
cunninghami Owen, 1893 (Argynnis)
ssp. e. kimimela Marrone, Spomer & Scott, 2008 (Argynnis)
ssp. f. eurynome Edwards, 1872 (Argynnis)
benjamini Gunder, 1927 (Argynnis)
brucei Gunder, 1927 (Argynnis)
clio Edwards, 1874 (Argynnis)
eris Igel, 1922 (Argynnis)
fieldi (dos Passos & Grey, 1947) (Speyeria)
gunderi Field, 1936 (Argynnis)
igeli (dos Passos & Grey, 1947) (Speyeria)

ssp. g. artonis Edwards, 1881 (Argynnis)
rubyensis Gunder, 1932 (Argynnis)
ssp. h. luski Barnes & McDunnough, 1913 (Argynnis)

Subfamily LIMENITIDINAE Behr, 1864

Tribe ADOLIADINI Doubleday, 1845 (excl.)

Genus EUTHALIA Hübner, [1819] (excl.)

77a0757E E. nais (Forster, 1771) (Papilio) EXCL. [NEW]
NOTE: The synonym *alcandra* was described from "Georgia en Florida" in error; *E. nais* is restricted to Asia.
alcandra (Hübner, 1818) (Symphaedra) (excl.)

Tribe LIMENITIDINI Behr, 1864

Subtribe LIMENITIDINA Behr, 1864

Genus LIMENITIS [Fabricius, in: Illiger], 1807
AZURITIS Boudinot, 1986
BASILARCHIA Scudder, 1872
CALLIANIRA Hübner, [1819]
LADOGA Moore, 1898
LITINGA Moore, 1898
NAJAS Hübner, [1806]
NYMPHA Krause, 1839
NYMPHALIS Boisduval, [1828]
NYMPHALIS Felder, 1861
PATSUIA Moore, 1898

77a0758 L. archippus (Cramer, [1775]) (Papilio) 4523
ssp. a. floridensis Strecker, 1878 (Limenitis)
eros Edwards, 1880 (Limenitis)
halli (Watson & Comstock, 1920) (Basilarchia)
nig Strecker, 1878 (Limenitis)
nigricans Strecker, 1900 (Limenitis)
ssp. b. watsoni (dos Passos, 1938) (Basilarchia)
ssp. c. archippus (Cramer, [1775]) (Papilio)
advena Ellsworth, 1918 (Limenitis)
arthechippus (Scudder, 1888) (Basilarchia)
cayuga (Nakahara, 1923) (Basilarchia)
disippe (Godart, [1824]) (Nymphalis)
dissipus; (Boisduval & Le Conte, 1834) (Nymphalis) emend.
lanthanis (Cook & Watson, 1909) (Basilarchia)
nivosus (Gunder, 1929) (Basilarchia)
pseudodorippus Strecker, 1878 (Limenitis)
rubidus Strecker, 1878 (Limenitis)
rubrofasechippus (Gunder, 1934) (Basilarchia)
weidechippus (Cross, 1936) (Basilarchia)
ssp. d. idaho Austin, 1998 (Limenitis)
ssp. e. lahontani Herlan, 1971 (Limenitis)
ssp. f. obsoleta Edwards, 1882 (Limenitis)
hulstii Edwards, 1882 (Limenitis)
ssp. g. hoffmanni Chermock, 1947 (Limenitis)

77a0759 L. arthemis (Drury, 1773) (Papilio) 4522
ssp. a. rubrofasciata (Barnes & McDunnough, 1916) (Basilarchia)
ssp. b. arthemis (Drury, 1773) (Papilio)
albofasciata Newcomb, 1907 (Limenitis)
benjamini (Nakahara, 1924) (Basilarchia)
cerulea Ehrmann, 1900 (Limenitis)
lamina (Fabricius, 1793) (Papilio)
proserpina Edwards, 1865 (Limenitis)
rufescens Cockerell, 1889 (Limenitis)
virithemis (Field, 1936) (Basilarchia)
ssp. c. astyanax (Fabricius, 1775) (Papilio)
atlantis (Nakahara, 1923) (Basilarchia)
ephestiaena (Hübner, [1819]) (Callianira)
ephestion (Stoll, 1790) (Papilio)
inornata (Nakahara, 1924) (Basilarchia)
purpuratus (Gunder, 1934) (Basilarchia)
tildeni (Field, 1934) (Basilarchia)
ursula (Fabricius, 1793) (Papilio)
viridis Strecker, 1878 (Limenitis)
ssp. d. arizonensis Edwards, 1882 (Limenitis)
doudoroffi (Gunder, 1934) (Basilarchia)

77a0760 L. weidemeyerii Edwards, 1861 (Limenitis) 4524
ssp. a. weidemeyerii Edwards, 1861 (Limenitis)
nigerrima (Cockerell, 1927) (Basilarchia)
ssp. b. oberfoelli Brown, 1960 (Limenitis)
ssp. c. latifascia Perkins & Perkins, 1967 (Limenitis)
ssp. d. nevadae (Barnes & Benjamin, 1924) (Basilarchia)
ssp. e. angustifascia (Barnes & McDunnough, 1912) (Basilarchia)
sinefascia Edwards, 1882 (Limenitis) emend.
ssp. f. siennafascia Austin & Mullins, 1984 (Limenitis)

77a0761 L. lorquini Boisduval, 1852 (Limenitis) 4525
ssp. a. powelli Austin & Emmel, 1998 (Limenitis)
powelli (Field, 1936) (Basilarchia)
ssp. b. pallidafacies Austin & Emmel, 1998 (Limenitis)
comstocki (Gunder, 1925) (Basilarchia)
ssp. c. lorquini Boisduval, 1852 (Limenitis)
eavesii Edwards, 1877 (Limenitis)
fridayi (Gunder, 1932) (Basilarchia)
gunderi (Field, 1936) (Basilarchia)
ssp. d. ilgae Guppy, 2001 (Limenitis)
maynardi (Field, 1936) (Basilarchia)
ssp. e. burrisonii Maynard, 1891 (Limenitis)
burrisoni; [various, no date] (Limenitis) missp.
itelkae Guppy, 2001 (Limenitis)

Genus ADELPHA Hübner, [1819]
HETEROCHROA Boisduval, 1836

77a0762 A. eulalia (Doubleday, [1848]) (Limenitis) [NEW]
guatemalensis (Carpenter & Hobby, 1944) (Limenitis)
77a0763 A. californica (Butler, 1865) (Heterochroa) [NEW]
77a0764 A. fessonia (Hewitson, 1847) (Heterochroa) STRAY 4526
ssp. a. fessonia (Hewitson, 1847) (Heterochroa) (stray)
77a0765 A. basiloides (Bates, 1865) (Heterochroa) STRAY [NEW]
caelia Fruhstorfer, 1915 (Adelpha)
lativittata Staudinger, 1886 (Adelpha)
lemnia (Felder & Felder, 1867) (Heterochroa)
lydia (Butler, 1865) (Heterochroa)
77a0766E A. bredowii Geyer, 1837 (Adelpha) EXCL. 4527
NOTE: Prudic et al. (2008) detail the distinction between *A. eulalia*, *A. californica*, and *A. bredowi*. *Adelpha bredowii* does not occur in NA.

Subfamily APATURINAE Boisduval, 1840

Genus ASTEROCAMPA Röber, 1916

77a0767 A. celtis (Boisduval & Le Conte, [1835]) (Apatura) 4557
ssp. a. celtis (Boisduval & Le Conte, [1835]) (Apatura)
alb (Strecker, 1878) (Apatura)
alicia (Edwards, 1868) (Apatura) *[4562]*
inornata (Wolcott, 1916) (Chlorippe)
lycaon (Fabricius, 1793) (Papilio)
ssp. b. reinthali Friedlander, 1987 (Asterocampa)
ssp. c. antonia (Edwards, [1878]) (Apatura) [4558]
jeffermont Scott & Fisher, 2008 (Asterocampa)
mexicana Freidlander, 1987 (Asterocampa)
montis (Edwards, 1883) (Apatura) *[4559]*
77a0768 A. leilia (Edwards, 1874) (Apatura) 4561
cocles (Lintner, [1885]) (Apatura)
77a0769 A. clyton (Boisduval & Le Conte, [1835]) (Apatura) 4562.1
ssp. a. clyton (Boisduval & Le Conte, [1835]) (Apatura)
apunctus (Scott, 1981) (Apatura)
geneumbrosa (Scott, 1986) (Apatura)
nig (Strecker, 1878) (Apatura)
ocellata (Edwards, 1876) (Apatura)
proserpina (Scudder, 1868) (Apatura)
ssp. b. flora (Edwards, 1876) (Apatura) [4563]
ssp. c. texana (Skinner, 1911) (Chlorippe) [4564]
subpallida (Barnes & McDunnough, 1913) (Chlorippe) *[4560]*
ssp. d. louisa Stallings & Turner, 1947 (Asterocampa) [4565]
77a0770 A. idyja (Geyer, [1828]) (Doxocopa) extralim.; STRAY [NEW]
ssp. a. argus (Bates, 1864) (Apatura) (stray)
armilla (Fruhstorfer, 1912) (Doxocopa)

Genus DOXOCOPA Hübner, [1819]
CATARGYRIA Hübner, [1823]
CELTIPHAGA Barnes & Lindsey, 1922
CHLORIPPE Boisduval, 1870
CHLORIPPE Doubleday, [1845]

77a0771 D. pavon (Latreille, [1809]) (Nymphalis)
extralim.; STRAY 4566
ssp. a. theodora (Lucas, 1857) (Apatura) (stray)
cuellinia (Fruhstorfer, 1907) (Chloripe)
inumbratus (Fruhstorfer, 1907) (Chlorippe)
mentas (Boisduval, 1870) (Chlorippe)
subtuniformis (Röber, 1916) (Chlorippe)

77a0772 D. druryi (Hübner, [1825]) (Catargyria) extralim.; STRAY [NEW]
NOTE: de la Maza & de la Maza (2022) recognized *D. druryi acca* as the NA entity, distinct from *D. laure*. Under this arrangement, *D. laure* does not occur in NA.
ssp. a. acca (Felder & Felder, 1867) (Apatura) (stray)
laure of authors; (not Drury, 1773) (Papilio) misappl. *[4567]*
laurina Bryk, 1938 (Doxocopa)
majugena (Fruhstorfer, 1907) (Catargyria)

Subfamily BIBLIDINAE Boisduval, 1833

Tribe EPIPHILINI Jenkins, 1987

Genus TEMENIS Hübner, [1819]
NOTE: Zhang et al. (2021) determined this synonymy and acted as revisers giving *Temenis* Hübner, [1819] priority over *Asterope* Hübner, [1819]. This arrangement awaits confirmation.
ASTEROPE Hübner, [1819]
CALLICORINA Smart, 1976
CALLITHEA Feisthamel, 1835
CYANE Felder & Felder, 1861
NICA Hübner, [1826]
PAROMIA Hewitson, 1861
PELIA Doubleday, [1849]
PERIA Kirby, 1871
PSEUDONICA Kirby, [1901]

77a0773 T. laothoe (Cramer, [1777]) (Papilio) extralim. [NEW]
ssp. a. hondurensis Fruhstorfer, 1907 (Temenis)
columbiana Fruhstorfer, 1907 (Temenis)
liberia (Fabricius, 1793) (Papilio)

Genus EPIPHILE Doubleday, [1845]
EPIPHILE Boisduval, 1870

77a0774 E. adrasta Hewitson, 1861 (Epiphile) STRAY [NEW]
ssp. a. adrasta Hewitson, 1861 (Epiphile) (stray)

Tribe CATONEPHELINI Orfila, 1952 (1865)

Genus EUNICA Hübner, [1819]
AMYCLA Doubleday, 1849
CALLIANIRA Doubleday, 1847
EUNICE Geyer, 1832
EVONYME Hübner, [1819]
FAUNIA Poey, 1847
LIBYTHINA Felder, 1861

77a0775 E. monima (Stoll, in: Cramer, [1782]) (Papilio) 4532
fairchildi Bates, 1935 (Eunica)
habanae Seitz, 1915 (Eunica)
modesta Bates, 1864 (Eunica)
myrto (Godart, [1824]) (Nymphalis)
petraea (Fabricius, 1938) (Limenitis)

77a0776 E. tatila (Herrich-Schäffer, [1855]) (Cybdelis) 4533
ssp. a. tatila (Herrich-Schäffer, [1855]) (Cybdelis)
caerula Godman & Salvin, 1877 (Eunica)
ssp. b. tatilista Kaye, 1926 (Eunica)

Genus MYSCELIA Doubleday, [1845]
SAGARITIS Hübner, [1821]

77a0777 M. ethusa (Doyère, [1840]) (Cybdelis) 4528
ssp. a. ethusa (Doyère, [1840]) (Cybdelis)
rogenhoferi Felder, 1869 (Myscelia)

77a0778 M. cyananthe Felder & Felder, 1867 (Myscelia)
extralim.; STRAY 4531
ssp. a. skinneri Mengel, 1894 (Myscelia) (stray) [4529]
ssp. b. streckeri Skinner, 1889 (Myscelia) (excl.) [4530]
NOTE: Listed from NA by Miller & Brown (1981), but excluded by Pelham (2008).

Tribe AGERONIINI Doubleday, 1847

Genus HAMADRYAS Hübner, [1806]
ID INFO: Jenkins (1984); also Garzón-Orduña et al. (2017).
NOTE: Stray versus resident status of species and subspecies in NA is from Jenkins (1984) and Garzón-Orduña et al. (2017) except as noted.
AGERONIA Hübner, [1819]
AMPHICHLORA Felder, 1861
APATURA [Illiger], 1807
PERIDROMIA Boisduval, 1836
PERIDROMIA Lacordaire, 1833
PHILOCALA Billberg, 1820

77a0779 H. atlantis (Bates, 1864) (Ageronia) extralim. [NEW]
ssp. a. lelaps (Godman & Salvin, 1893) (Ageronia)

77a0780E H. fornax (Hübner, [1823]) (Ageronia) EXCL. 4540
NOTE: Supposed NA material is misidentified (Jenkins 1984; Pelham 2008).

77a0781 H. februa (Hübner, [1823]) (Ageronia) extralim. 4542
NOTE: Garzón-Orduña et al. (2017) adjusted the taxonomy of this species.
ssp. a. ferentina (Godart, [1824]) (Nymphalis)
fundania (Fruhstorfer, 1916) (Ageronia)
gudula ([Fruhstorfer], 1914) (Ageronia)
hierone (Fruhstorfer, 1916) (Ageronia)
icilia (Fruhstorfer, 1916) (Ageronia)
sodalia (Fruhstorfer, 1916) (Ageronia)
ssp. b. ferox (Staudinger, 1886) (Ageronia) [4543]
NOTE: The taxon *ferox*, traditionally considered a valid species, is placed here as a subspecies of *H. februa* following Garzón-Orduña et al. (2017).
amphichloe of authors; (not Boisduval, 1870) (Ageronia) misappl.
NOTE: Records of this species from NA, as *H. amphichloe diasia* (Fruhstorfer), refer to *H. februa ferox* (Staudinger) (Garzón-Orduña et al. (2017). "True" *H. amphichloe* does not occur in NA.
antillana (Hall, 1925) (Ageronia)
diasia (Fruhstorfer, 1916) (Ageronia)
poseidon (Clark, 1905) (Amphichlora)

77a0782 H. glauconome (Bates, 1864) (Ageronia) STRAY [NEW]
ssp. a. glauconome (Bates, 1864) (Ageronia) (stray)
aenoe (Doubleday, 1847) (Ageronia)
megala (Fruhstorfer, 1914) (Ageronia)
oenoe (Boisduval, 1870) (Ageronia)
ssp. b. grisea Jenkins, 1983 (Hamadryas) (stray)

77a0783 H. iphthime (Bates, 1864) (Ageronia) extralim.; STRAY [NEW]
ssp. a. joannae Jenkins, 1983 (Hamadryas) (stray)

77a0784 H. feronia (Linnaeus, 1758) (Papilio) extralim.; STRAY 4541
ssp. a. farinulenta (Fruhstorfer, 1916) (Ageronia) (stray)
insularis (Fruhstorfer, 1916) (Ageronia)

77a0785 H. guatemalena (Bates, 1864) (Ageronia)
extralim.; STRAY [NEW]
ssp. a. marmarice (Fruhstorfer, 1916) (Ageronia) (stray)
NOTE: No verified records could be found by Jenkins (1984); more recent records reported by Brock & Kaufman (2003) are considered herein to be strays.

77a0786 H. amphinome (Linnaeus, 1767) (Papilio)
extralim.; STRAY 4544
ssp. a. mexicana (Lucas, 1853) (Peridromia) (stray)

Tribe BIBLIDINI Boisduval, 1833

Genus BIBLIS [Fabricius, in: Illiger], 1807
NOTE: Zhang et al. (2021) determined that *Vila* and its synonyms are synonyms of this genus. This arrangement awaits confirmation.
LONIA d'Almeida, [1946]
NEPTIS Hübner, [1819]
OLINA Doubleday, [1848]
VILA Kirby, 1871
ZONAGA Billberg, 1820

77a0787 B. aganisa Boisduval, 1836 (Biblis) [NEW]
NOTE: Zhang et al. (2021) determined that *B. aganisa* is a distinct species and removed *B. hyperia* and its synonyms *biblis* (Fabricius, 1775) and *thadana* Godart, [1819] from the NA fauna.
hyperia of authors; (not Cramer, [1779]) (Papilio) misappl. *[4539]*

pasira (Doubleday, [1848]) (Didonis)
quautemotzin (Arias, 1968) (Papilio)
ququhtemotzin (Arias, 1968) (Miahuaxochitl)

Genus MESTRA Hübner, [1825]
CYSTINEURA Boisduval, 1836

77a0788 M. amymone (Ménétriés, 1857) (Cystineura) 4537
77a0789E M. dorcas (Fabricius, 1775) (Papilio) EXCL. [NEW]
NOTE: The synonym *floridana* was described from specimens supposedly from FL, but they are presumed to be mislabeled (Pelham 2008). This species does not occur in NA. It has also been reported from NA under the synonyms *cana* and *dorcas*.
cana (Erichson, [1849]) (Cystineura) (excl.) *[4538]*
floridana (Strecker, 1900) (Cystineura) (excl.)

Tribe EUBAGINI Burmeister, 1878

Genus DYNAMINE Hübner, [1819]
ARISBA Doubleday, 1847
EUBAGIS Boisduval, 1832
SIRONIA Hübner, 1823

77a0790 D. postverta (Cramer, [1780]) (Papilio) extralim.; STRAY [NEW]
ssp. a. mexicana d'Almeida, 1952 (Dynamine) (stray)
bipupillata Röber, 1915 (Dynamine)
77a0791 D. dyonis Geyer, 1837 (Dynamine) STRAY 4534
77a0792E D. tithia (Hübner, 1823) (Sironia) EXCL. [NEW]
NOTE: A TX specimen detailed by Kendall & McGuire (1984) is thought to be an unestablished introduction (Pelham 2008).

Tribe CALLICORINI Orfila, 1952 (excl.)

Genus DIAETHRIA Billberg, 1820 (excl.)

77a0793E D. asteria (Godman & Salvin, 1894) (Callicore) EXCL. 4536
NOTE: Report of this species in NA based on a TX specimen is dubious, and the species was excluded from the NA fauna by Pelham (2008).
77a0794E D. clymena (Cramer, [1775]) (Papilio) EXCL. 4535
NOTE: Report of this species from FL by Klots (1951) is thought to be an accidental introduction (Pelham 2008).
77a0795E D. anna (Guérin-Méneville, [1844]) (Catagramma) EXCL. [NEW]
NOTE: Reports of this species from TX have not been verified; it was excluded from the NA fauna by Pelham (2008).
77a0796E D. astala (Guérin-Méneville, [1844]) (Catagramma) EXCL. [NEW]
NOTE: Reports of this species from TX have not been verified; it was excluded from the NA fauna by Pelham (2008).

Subfamily CYRESTINAE Guenée, 1865

Tribe CYRESTINI Guenée, 1865

Genus MARPESIA Hübner, 1818
ATHENA Hübner, [1819]
EUGLYPHUS Billberg, 1820
EUMARGARETA Grote, 1898
MARIUS Swainson, 1830
MEGALURA Blanchard, 1840
PETREUS Swainson, 1833
TIMETES Boisduval, 1870
TIMETES Doubleday, [1845]
TYMETES Doyére, [1840]

77a0797 M. zerynthia Hübner, [1823] (Marpesia) extralim.; STRAY [NEW]
coresia (Godart, [1824]) (Nymphalis) (excl.) *[4548]*
ssp. a. dentigera (Fruhstorfer, 1907) (Megalura) (stray)
77a0798 M. chiron (Fabricius, 1775) (Papilio) STRAY 4549
axayacatl (Arias, 1968) (Papilio)
chironides (Staudinger, 1886) (Megalura)
cyclops (Fabricius, 1938) (Papilio)
insularis (Fruhstorfer, 1907) (Megalura)
marius (Cramer, [1779]) (Papilio)
77a0799 M. petreus (Cramer, [1776]) (Papilio) 4550
ssp. a. petreus (Cramer, [1776]) (Papilio)
77a0800 M. eleuchea Hübner, 1818 (Marpesia) STRAY 4551
ssp. a. eleuchea Hübner, 1818 (Marpesia) (stray)
ssp. b. bahamensis Munroe, 1971 (Marpesia) (stray)
NOTE: This Bahamian subspecies was reported from FL by Minno et al. (2022).

Subfamily NYMPHALINAE Rafinesque, 1815

Tribe COEINI Scudder, 1893

Genus HISTORIS Hübner, [1819]
AGANISTHOS Boisduval & Le Conte, [1835]
COEA Hübner, [1819]
MEGISTANIS Boisduval, 1870
MEGISTANIS Doubleday, 1845

77a0801 H. odius (Fabricius, 1775) (Papilio) 4545
ssp. a. odius (Fabricius, 1775) (Papilio)
orion (Fabricius, 1775) (Papilio)
ssp. b. dious Lamas, 1995 (Historis)
danae (Cramer, [1775]) (Papilio)
77a0802 H. acheronta (Fabricius, 1775) (Papilio) 4546
ssp. a. acheronta (Fabricius, 1775) (Papilio)
pherecydes (Stoll, in: Cramer, [1780]) (Papilio)
ssp. b. cadmus (Cramer, [1775]) (Papilio) (unver.)
NOTE: This Caribbean subspecies was reported from FL by Miller & Brown (1981), and at least one FL specimen may be authentic according to Calhoun (1997), but no verified records are known.

Tribe NYMPHALINI Rafinesque, 1815

Genus SMYRNA Hübner, [1823]

77a0803 S. blomfildia (Fabricius, 1781) (Papilio) extralim.; STRAY [NEW]
ssp. a. datis Fruhstorfer, 1908 (Smyrna) (stray)
NOTE: This species was considered a stray in southern TX by Brock & Kaufman (2003), but it may be an occasional breeding resident.
77a0804 S. karwinskii Geyer, [1833] (Smyrna) STRAY 4547
NOTE: Previous records of this species from the USA were substantiated by Glassberg (2013).

Genus HYPANARTIA Hübner, [1821]
EUREMA Doubleday, 1845
HEUREMA Herrich-Schäffer, 1865
HYBRISTIS Hübner, 1937

77a0805 H. lethe (Fabricius, 1793) (Papilio) 4438
demonica Hübner, [1821] (Hypanartia)

Genus AGLAIS Dalman, 1816
NOTE: Zhang et al. (2020) united *Nymphalis*, *Aglais* and *Polygonia* under *Nymphalis* as subgenera. Their arrangement was largely in accordance with Nylin et al. (2001) and Wahlberg & Nylin (2003), but the latter deferred from uniting these three genera citing nomenclatorial stability. That latter treatment is followed here.
HAMADRYAS Hübner, [1806]
ICHNUSA Reuss, 1939
INACHIS Hübner, [1819]

77a0806 A. milberti (Godart, 1819) (Vanessa) 4433
ssp. a. viola dos Passos, 1938 (Aglais)
ssp. b. milberti (Godart, 1819) (Vanessa)
furcillata (Say, 1825) (Vanessa)
rothkei Gunder, 1927 (Aglais)
ssp. c. subpallida (Cockerell, 1889) (Vanessa)
ssp. d. pullum (Austin, 1998) (Nymphalis)
77a0807 A. io (Linnaeus, 1758) (Papilio) I [NEW]
NOTE: This European species was introduced and has become established in QC since 1997. Records are summarized in the 2005 and 2006 Season Summaries of the Lepidopterists' Society (2006, 2007).
ssp. a. io (Linnaeus, 1758) (Papilio)
calorefacta (Urech, 1897) (Vanessa)
cyanosticta (Raynor, 1903) (Vanessa)
dyophtalmica (Garbini, 1883) (Vanessa)
exoculata (Weymer, 1878) (Vanessa)
fischeri (Standfuss, 1892) (Vanessa)
fulva (Oudemans, 1905) (Vanessa)
ioides (Ochsenheimer, 1807) (Papilio)
narses (Schultz, 1899) (Vanessa)
oligoio (Reuss, 1939) (Inachis)
pavo (Stichel, 1902) (Vanessa)
sardoa (Staudinger, 1871) (Vanessa)
veronensis (Garbini, 1883) (Vanessa)

77a0808E A. urticae (Linnaeus, 1758) (Papilio) EXCL. [NEW]
NOTE: A specimen found in Halifax, NS is an interception from a European package (Layberry et al. 1998). It has also been reported as a likely interception in the New York City, NY area (Brock & Kaufman 2003). Two specimens from GR are also considered to be unestablished introductions; this species has never been established in NA (Karsholt et al. 2015).

Genus NYMPHALIS Kluk, 1780
NOTE: See note under *Aglais*.
ANTIOPANA Korb, 2005
EUVANESSA Scudder, 1889
RODDIA Korshunov, 1995
SCUDDERIA Grote, 1873

77a0809 N. l-album (Esper, 1781) (Papilio) extralim. H [NEW]
vaualbum ([Denis & Schiffermüller], 1775) (Papilio) emend. *[4430]*
ssp. a. j-album (Boisduval & Le Conte, [1835]) (Vanessa)
NOTE: Kondla & Schmidt (in Pohl et al. 2010; Appendix) recognized this taxon as distinct from Eurasian *N. l-album*, but that is not followed here.
aureomarginata (Cockerell, 1889) (Grapta)
pocahontas (Scudder, 1889) (Eugonia)
ssp. b. watsoni (Hall, 1924) (Aglais)

77a0810 N. californica (Boisduval, 1852) (Vanessa) 4431
ssp. a. californica (Boisduval, 1852) (Vanessa)
herri Field, 1936 (Nymphalis)
polychloros of authors; (not Linnaeus, 1758) (Papilio) misappl.
NOTE: Forbes (1960) listed *N. californica* as a race of "*Aglais polychloros*", an Old World name.
ssp. b. timidar Scott & Kondla, 2014 (Nymphalis)

77a0811 N. antiopa (Linnaeus, 1758) (Papilio) H 4432
ssp. a. antiopa (Linnaeus, 1758) (Papilio)
betulae (Fabricius, 1938) (Vanessa)
bibla (Fabricius, 1938) (Vanessa)
borealis (Wnukowsky, 1927) (Vanessa)
creta (Verity, 1916) (Vanessa)
NOTE: This European synonym was reported from NA as a valid species, in error, by Clark & Clark (1938) (Pelham 2008).
grandis (Ehrmann, 1900) (Vanessa)
hippolyta (Lyman, 1898) (Vanessa)
hygiaea (Heydenreich, 1851) (Vanessa)
hyperborea (Seitz, 1913) (Vanessa)
lintnerii (Fitch, 1857) (Vanessa)
morio (Retzius, 1783) (Papilio)
obscura (Cockerell, 1890) (Vanessa)
pompadour (Pollich, 1781) (Papilio)
thomsonii (Butler, 1887) (Vanessa)

77a0812E N. xanthomelas ([Denis & Schiffermüller], 1775) (Papilio) EXCL. [NEW]
NOTE: This Asian species was listed in error from NA by Poole & Gentili (1996).

Genus POLYGONIA Hübner, [1819]
NOTE: See note under *Aglais*.
COMMA Rennie, 1832
EUGONIA Hübner, [1819]
GRAPTA Kirby, 1837
KANISKA Moore, [1899]

77a0813 P. interrogationis (Fabricius, 1798) (Papilio) 4420
crameri (Scudder, 1870) (Grapta)
fabricii (Edwards, 1870) (Grapta)
tiliae (Fabricius, 1938) (Cynthia)
umbrosa (Lintner, 1869) (Grapta)

77a0814 P. comma (Harris, 1841) (Vanessa) 4421
dryas (Edwards, 1870) (Grapta)
harrisii (Edwards, 1873) (Grapta)
umbrosa Scott, 1984 (Polygonia)

77a0815 P. satyrus (Edwards, 1869) (Grapta) 4422
ssp. a. satyrus (Edwards, 1869) (Grapta)
chrysoptera (Wright, 1905) (Grapta)
hollandi Gunder, 1927 (Polygonia)

77a0816E P. c-album (Linnaeus, 1758) (Nymphalis) EXCL. [NEW]
NOTE: The synonym *marsyas* was described from mislabeled Old World material of *P. c-album*, mistakenly attributed to "California" (Pelham 2008; Appendix II).
marsyas (Edwards, 1870) (Grapta) (excl.)
ssp. b. neomarsyas dos Passos, 1969 (Polygonia)
transcanada Scott & Kondla, 2006 (Polygonia)

77a0817 P. progne (Cramer, [1775]) (Papilio) 4429
c-argenteum (Kirby, 1837) (Vanessa)
l-argenteum Scudder, 1875 (Polygonia)
martineae Coleman, 1919 (Polygonia)
umbrosa Scott, 1984 (Polygonia)

77a0818 P. oreas (Edwards, 1869) (Grapta) 4428
ssp. a. oreas (Edwards, 1869) (Grapta)
ssp. b. silenus (Edwards, 1870) (Grapta)
ssp. c. threatfuli Guppy & Shepard, 2001 (Polygonia)
ssp. d. satellow Scott, 2006 (Polygonia)
ssp. e. nigrozephyrus Scott, 1984 (Polygonia)

77a0819 P. gracilis (Grote & Robinson, 1867) (Grapta) 4427
ssp. a. gracilis (Grote & Robinson, 1867) (Grapta)
ssp. b. zephyrus (Edwards, 1870) (Grapta) [4426]
thiodamas Scudder, 1875 (Polygonia)

77a0820 P. haroldii (Dewitz, 1877) (Grapta) [NEW]
NOTE: Recorded from TX by Hoyt (2014).

77a0821 P. faunus (Edwards, 1862) (Grapta) 4423
ssp. a. smythi Clark, 1937 (Polygonia)
ssp. b. faunus (Edwards, 1862) (Grapta)
virescens Scudder, 1875 (Polygonia)
ssp. c. arcticus Leussler, 1935 (Polygonia)
cenveray Scott & Kondla, 2006 (Polygonia)
ssp. d. rusticus (Edwards, 1874) (Grapta)
silvius (Edwards, 1874) (Grapta) *[4425]*
ssp. e. fulvescens Emmel, Emmel & Mattoon, 1998 (Polygonia)
ssp. f. hylas (Edwards, 1872) (Grapta) [4424]
NOTE: Pohl et al. (2010) treated this taxon as a full species, but that is not followed here.
orpheus Cross, 1936 (Polygonia)
silvius Scott, 1984 (Polygonia)

Genus VANESSA [Fabricius, in: Illiger], 1807
AMMIRALIS Rennie, 1832
CYNTHIA [Fabricius, in: Illiger], 1807
FIELDIA Niculescu, 1979
NEOFIELDIA Özdikmen, 2008
NEOPYRAMEIS Scudder, 1889
NYMPHALIS Latreille, 1804
PYRAMEIS Hübner, [1819]

77a0822 V. annabella (Field, 1971) (Cynthia) 4436
caryae; [various, no date] (Vanessa) missp.
carye of authors; (not Hübner, 1812) (Hamadryas) misappl.
NOTE: Records of *V. carye* in NA (often misspelled "*caryae*") refer to *V. annabella* (Shapiro & Geiger 1989).
intermedia Grinnell, 1918 (Vanessa)
letcheri Grinnell, 1918 (Vanessa)
muelleri (Letcher, 1898) (Pyrameis)
nivosa (Gunder, 1927) (Cynthia)
schraderi (Gunder, 1929) (Cynthia)

77a0823 V. virginiensis (Drury, 1773) (Papilio) 4434
ahwashtee Fox, 1921 (Vanessa)
fulvia (Dodge, 1900) (Pyrameis)
gnaphalii (Fabricius, 1938) (Cynthia)
huntera (Fabricius, 1775) (Papilio)
iole (Cramer, [1775]) (Papilio)
massachusettensis Gunder, 1925 (Vanessa)
simmsi (Gunder, 1927) (Cynthia)

77a0824 V. cardui (Linnaeus, 1758) (Papilio) C 4435
ate (Strecker, 1878) (Pyrameis)
belladonna (Godart, [1821]) (Papilio)
carduelis (Cramer, [1775]) (Papilio)
elymi Rambur, 1829 (Vanessa)
inops (Verity & Querci, 1924) (Pyrameis)
jacksoni (Clark, 1932) (Pyrameis)
japonica (Stichel, 1908) (Pyrameis)
leachiana (Doubleday, 1841) (Pyrameis)
littoralis (Sousa, 1926) (Pyrameis)
minor (Cockerell, 1890) (Pyrameis)
pulchra Chou, Yuan, Yin, Zhan & Chen, 2002 (Vanessa)
rogeri (Gaede, 1931) (Pyrameis)
semisuffusa Cockerell, 1889 (Vanessa)
uniersa (Verity, 1919) (Pyrameis)
ushuwaia Bryk, 1944 (Vanessa)

77a0825 V. atalanta (Linnaeus, 1758) (Papilio) extralim. H 4437
ssp. a. rubria (Fruhstorfer, 1909) (Pyrameis)
edwardsi Grinnell, 1918 (Vanessa)

Tribe VICTORININI Scudder, 1893

Genus ANARTIA Hübner, [1819]
ANARTIELLA Fruhstorfer, 1907
CELAENA Doubleday, 1849
CELOENA Boisduval, 1870

77a0826 A. jatrophae (Linnaeus, 1763) (Papilio) extralim. 4443
ssp. a. guantanamo Munroe, 1942 (Anartia)
ssp. b. luteipicta Fruhstorfer, 1907 (Anartia)

77a0827 A. fatima (Fabricius, 1793) (Papilio) 4445
ssp. a. fatima (Fabricius, 1793) (Papilio)
albifasciata Hoffmann, 1940 (Anartia)
albifusa Hoffmann, 1940 (Anartia)
kuhlweini Geyer, 1833 (Anartia)
moreno Kruck, 1931 (Anartia)
oscurata de la Maza, 1976 (Anartia)
venusta Fruhstorfer, 1907 (Anartia)

77a0828 A. chrysopelea Hübner, [1831] (Anartia) STRAY 4444
eurytis (Fruhstorfer, 1907) (Anartiella)
lytrea of authors; (not Godart, 1819) (Vanessa) misid.
NOTE: Reports of *A. lytrea* in FL are based on misidentifications of *A. chrysopelea* (Pelham 2008).

Genus SIPROETA Hübner, [1823]
NOTE: Zhang et al. (2021) determined that *Napeocles* is a synonym of this genus. This arrangement awaits confirmation.
AMPHIRENE Boisduval, 1870
AMPHIRENE Doubleday, 1845
APHNAEA Capronnier, 1881
NAPEOCLES Bates, 1864
VICTORINA Blanchard, 1840

77a0829 S. stelenes (Linnaeus, 1758) (Papilio) extralim. 4446
ssp. a. biplagiata (Fruhstorfer, 1907) (Victorina)
claro Scott, 1986 (Siproeta)
insularis (Holland, 1916) (Victorina)
oscuro Scott, 1986 (Siproeta)
pallida (Fruhstorfer, 1907) (Victorina)
pallida (Fruhstorfer, 1909) (Victorina)
stygiana (Schaus, 1913) (Victorina)

77a0830 S. epaphus (Latreille, 1813) (Vanessa) STRAY [NEW]
ssp. a. epaphus (Latreille, 1813) (Vanessa) (stray)
ficianus (Talbot, [1923]) (Amphirene)

Tribe JUNONIINI Reuter, 1896

Genus JUNONIA Hübner, [1819]
ID INFO: Cong et al. (2020).
ALCYONEIS Hübner, [1819]
ARESTA Billberg, 1820
KAMILLA Collins & Larsen, 1991

77a0831 J. coenia Hübner, [1822] (Junonia) 4440
ssp. a. coenia Hübner, [1822] (Junonia)
antirrhini (Fabricius, 1938) (Cynthia)
quinatzin (Arias, 1968) (Papilio)
rosa (Whittaker & Stallings, 1944) (Precis)
rubrosuffusa (Field, 1936) (Precis)
weidenhammeri Polacek, 1925 (Junonia)

77a0832 J. grisea Austin & Emmel, 1998 (Junonia) [NEW]
NOTE: Recognized as a full species by Lalonde & Marcus (2019).
schraderi Gunder, 1925 (Junonia)
wilhelmi Gunder, 1927 (Junonia)

77a0833 J. nigrosuffusa Barnes & McDunnough, 1916 (Junonia) 4441
NOTE: Treated as a full species by Hafernik (1982), rather than as a subspecies of *J. coenia*. This was supported by Cong et al. (2020).
melanina Hall, 1919 (Junonia)

77a0834 J. stemosa Grishin, 2020 (Junonia) [NEW]
NOTE: Described in Cong et al. (2020) for TX populations previously treated as *J. nigrosuffusa*.

77a0835 J. zonalis Felder & Felder, 1867 (Junonia) [NEW]
NOTE: Status as a full species, rather than as a subspecies of *J. evarete*, was proposed by Neild (2008) and supported by Cong et al. (2020).
ssp. a. zonalis Felder & Felder, 1867 (Junonia)

77a0836E J. evarete (Cramer, [1779]) (Papilio) EXCL. 4442
NOTE: This species, previously listed from NA as the parent species of *zonalis* and *nigrosuffusa* by Pelham (2008), was excluded from the NA fauna by Cong et al. (2020). "True" *J. evarete*, as currently defined, does not occur in NA. The synonym *lavinia* Cramer, [1775] (a junior homonym of *Papilio lavinia* Fabricius, 1775) was used by Forbes (1960) for this species.
lavinia (Cramer, [1775]) (Papilio) (excl.); preocc.

77a0837 J. neildi Brévignon, 2004 (Junonia) [NEW]
NOTE: Brévignon (2009) elevated this taxon to species level. It was reported from FL by Lalonde et al. (2018).
ssp. a. neildi Brévignon, 2004 (Junonia)
ssp. b. varia Grishin, 2020 (Junonia)
litoralis of authors; not Brévignon, 2009 (Junonia) misappl.
NOTE: Mangrove-feeding *Junonia* with dark antennal clubs have been reported under the name *J. litoralis*, but these were described recently as *J. neildi* subspecies *varia*. "True" *J. litoralis* was excluded from the NA fauna by Cong et al. (2020).

77a0838E J. genoveva (Cramer, [1780]) (Papilio) EXCL. [NEW]
NOTE: This species, previously listed from NA by Pelham (2008), was excluded from the NA fauna by Cong et al. (2020).

Genus HYPOLIMNAS Hübner, [1819]
DIADEMA Boisduval, 1832
ESOPTRIA Hübner, [1819]
EUCALIA Felder, 1861
EURALIA Westwood, 1850

77a0839 H. misippus (Linnaeus, 1764) (Papilio) STRAY 4439
alcippoides Butler, 1883 (Hypolimnas)
diocippus (Cramer, [1775]) (Papilio)
dioxippe (Hübner, 1816) (Euploea)
horina Tanaka, 1941 (Hypolimnas)
immima Bernardi, 1959 (Hypolimnas)
inaria (Cramer, [1779]) (Papilio)
misippe (Godart, 1819) (Danais)
pallens Nire, 1917 (Hypolimnas)
picta Fruhstorfer, in: Seitz, 1912 (Hypolimnas)

Tribe MELITAEINI Herrich-Schäffer, 1843
NOTE: Zhang et al. (2021) treated Melitaeini with only two subtribes. That arrangement is adopted herein.

Subtribe EUPHYDRYINA Higgins, 1976

Genus EUPHYDRYAS Scudder, 1872

Subgenus HYPODRYAS Higgins, 1978
CRYODRYAS Lastukhin, 2008
LEMONIAS Hübner, [1806]
NEODRYAS Lastukhin, 2008

77a0840 E. gillettii (Barnes, 1897) (Melitaea) 4521
glacialis (Skinner, 1921) (Melitaea)
herri Gunder, 1929 (Euphydryas)

Subgenus EUPHYDRYAS Scudder, 1872
ANTHODRYAS Lastukhin, 2008
OCCIDRYAS Higgins, 1978

77a0841 E. editha (Boisduval, 1852) (Melitaea) 4520

editha subspecies group Bauer, 1975

ssp. a. taylori (Edwards, 1888) (Melitaea)
barnesi Gunder, 1928 (Euphydryas)
victoriae Gunder, 1926 (Euphydryas)
ssp. b. editha (Boisduval, 1852) (Melitaea)
bayensis Sternitzky, 1937 (Euphydryas)
sternitzkyi Gunder, 1929 (Euphydryas)
ssp. c. insularis Emmel & Emmel, 1974 (Euphydryas)
ssp. d. quino (Behr, 1863) (Melitaea)
augusta (Edwards, 1890) (Melitaea)
fieldi Gunder, 1924 (Euphydryas)
rubyae Hower, 1935 (Euphydryas)
thornei Gunder, 1934 (Euphydryas)
wrighti Gunder, 1929 (Euphydryas)

nubigena subspecies group Bauer, 1975

ssp. e. augustina (Wright, 1905) (Melitaea)
ssp. f. ehrlichi Baughman & Murphy, 1998 (Euphydryas)
ssp. g. nubigena (Behr, 1863) (Melitaea)
boharti Gunder, 1929 (Euphydryas)
tiogaensis Gunder, 1929 (Euphydryas)
ssp. h. tahoensis Austin & Murphy, 1998 (Euphydryas)
ssp. i. aurilacus Gunder, 1928 (Euphydryas)
albiradiata Gunder, 1926 (Euphydryas)
foxi Gunder, 1924 (Euphydryas)

ssp. j. lawrencei Gunder, 1931 (Euphydryas)
diamondensis Gunder, 1931 (Euphydryas)
remingtoni Burdick, 1959 (Euphydryas)
thielsenensis Gunder, 1931 (Euphydryas)
ssp. k. colonia (Wright, 1905) (Melitaea)

baroni subspecies group Bauer, 1975

ssp. l. rubicunda (Edwards, 1881) (Melitaea)
cottlei Gunder, 1928 (Euphydryas)
ssp. m. baroni (Edwards, 1879) (Melitaea)
baroni (Edwards, 1881) (Melitaea)
dunni; Gunder, 1929 (Euphydryas) orig. missp.
gunni Gunder, 1929 (Euphydryas) emend.
ssp. n. karinae Baughman & Murphy, 1998 (Euphydryas)
ssp. o. luestherae Murphy & Ehrlich, 1980 (Euphydryas)
mirabilis (Wright, 1905) (Melitaea)
ssp. p. monoensis Gunder, 1928 (Euphydryas)
fridayi Gunder, 1931 (Euphydryas)
rubrosuffusa Comstock, 1926 (Euphydryas)
ssp. q. edithana (Strand, 1915) (Lemonias)
ssp. r. bingi Baughman & Murphy, 1998 (Euphydryas)
bingorum Lamas, 1999 (Euphydryas)
ssp. s. mattooni Austin & Murphy, 1998 (Euphydryas)
mattoonorum Lamas, 1999 (Euphydryas)
ssp. t. owyheensis Austin & Murphy, 1998 (Euphydryas)
ssp. u. lehmani Gunder, 1929 (Euphydryas)
caverna Gunder, 1934 (Euphydryas)
koreti Murphy & Ehrlich, 1984 (Euphydryas)
ssp. v. gunnisonensis Brown, [1971] (Euphydryas)
ssp. w. alebarki Ferris, [1971] (Euphydryas)
ssp. x. montanus McDunnough, 1928 (Euphydryas)
ssp. y. hutchinsi McDunnough, 1928 (Euphydryas)
ssp. z. beani (Skinner, 1897) (Melitaea)
blackmorei Gunder, 1926 (Euphydryas)

77a0842 E. phaeton (Drury, 1773) (Papilio) 4516
ssp. a. phaeton (Drury, 1773) (Papilio)
borealis Chermock & Chermock, 1940 (Euphydryas)
clarki Pavulaan, 2021 (Euphydryas)
magnifica (Clark, 1927) (Melitaea)
phaetaena (Hübner, [1819]) (Melitaea)
phaethusa (Hulst, 1881) (Melitaea)
schausi (Clark, 1927) (Melitaea)
streckeri (Ellsworth, 1902) (Melitaea)
superba (Strecker, 1878) (Melitaea)
ssp. b. ozarkae Masters, 1968 (Euphydryas)

77a0843 E. chalcedona (Doubleday, 1847) (Melitaea) 4517
ssp. a. klotsi dos Passos, 1938 (Euphydryas)
venusta Gunder, 1932 (Euphydryas)
ssp. b. kingstonensis Emmel & Emmel, 1973 (Euphydryas)
ssp. c. corralensis Emmel & Emmel, 1973 (Euphydryas)
ssp. d. hennei Scott, 1981 (Euphydryas)
hennei Gunder, 1932 (Euphydryas)
ssp. e. sierra (Wright, 1905) (Melitaea)
irelandi Gunder, 1929 (Euphydryas)
magdelenae Gunder, 1925 (Euphydryas)
umbrobasana Comstock, 1926 (Euphydryas)
ssp. f. olancha (Wright, 1905) (Melitaea)
georgei Gunder, 1928 (Euphydryas)
malcolmi Gunder, 1927 (Euphydryas)
ssp. g. macglashanii (Rivers, 1888) (Melitaea)
hilli Gunder, 1928 (Euphydryas)
sinecat Scott, 2008 (Euphydryas)
truckeensis Gunder, 1928 (Euphydryas)
ssp. h. dwinellei (Edwards, 1881) (Melitaea)
sperryi Chermock & Chermock, 1945 (Euphydryas)
ssp. i. trinitina Baughman & Murphy, 1998 (Euphydryas)
ssp. j. chalcedona (Doubleday, 1847) (Melitaea)
cooperi (Behr, 1863) (Melitaea)
fusimacula (Barnes, 1900) (Melitaea)
fusisecunda Comstock, 1926 (Euphydryas)
grundeli (Coolidge, 1908) (Lemonias)
hemiluteofuscus Gunder, 1925 (Euphydryas)
hemimelanica Comstock, 1926 (Euphydryas)
lorquini (Oberthür, 1914) (Melitaea)
mariana (Barnes, 1900) (Melitaea)
omniluteofuscus Gunder, 1925 (Euphydryas)
suprafusa Comstock, 1926 (Euphydryas)
supranigrella Comstock, 1926 (Euphydryas)

77a0844 E. colon (Edwards, 1881) (Melitaea) 4518
ssp. a. colon (Edwards, 1881) (Melitaea)
bakeri Fender, 1945 (Euphydryas)
fenderi Gunder, 1932 (Euphydryas)
macdunnoughi; dos Passos, 1964 (Euphydryas) emend.
mcdunnoughi Gunder, 1928 (Euphydryas)
perdiccas (Edwards, 1881) (Melitaea) emend.
perdiceas; (Edwards, 1881) (Melitaea) orig. missp.
ssp. b. svihlae Pelham, 2008 (Euphydryas)
svihlae Gunder, 1932 (Euphydryas)
ssp. c. wallacensis Gunder, 1928 (Euphydryas)
huellemanni Comstock, 1926 (Euphydryas)
idahoensis Gunder, 1929 (Euphydryas)
ssp. d. nevadensis Bauer, 1975 (Euphydryas)
ssp. e. paradoxa McDunnough, 1927 (Euphydryas)
nigrisupernipennis Gunder, 1926 (Euphydryas)

77a0845 E. anicia (Doubleday, 1847) (Melitaea) 4519

anicia subspecies group Bauer, 1975

ssp. a. helvia (Scudder, 1869) (Melitaea)
ssp. b. anicia (Doubleday, 1847) (Melitaea)
mayi Gunder, 1932 (Euphydryas)
ssp. c. howlandi Stallings & Turner, 1947 (Euphydryas)

eurytion subspecies group Bauer, 1975

ssp. d. hopfingeri Gunder, 1934 (Euphydryas)
andersoni Gunder, 1934 (Euphydryas)
ssp. e. effi Stallings & Turner, 1945 (Euphydryas)
ssp. f. windi Gunder, 1932 (Euphydryas)
ssp. g. maria (Skinner, 1899) (Melitaea)
skinneri Gunder, 1928 (Euphydryas)
spaldingi Gunder, 1928 (Euphydryas)
ssp. h. brucei (Edwards, 1888) (Melitaea)
melanodisca (Comstock, 1918) (Melitaea)
ssp. i. eurytion (Mead, [1876]) (Melitaea)
carolae Emmel & Harris, 1998 (Euphydryas)
rubrolimbata (Comstock, 1918) (Melitaea)
ssp. j. wecoeut Fisher, Spomer & Scott, 2006 (Euphydryas)
ssp. k. alena Barnes & Benjamin, 1926 (Euphydryas)
ssp. l. magdalena Barnes & McDunnough, 1918 (Euphydryas)
ssp. m. hermosa (Wright, 1905) (Melitaea)
duncani Gunder, 1934 (Euphydryas)

capella subspecies group Ferris & Holland, 1980

ssp. n. chuskae (Ferris & Holland, 1980) (Occidryas)
ssp. o. carmentis Barnes & Benjamin, 1926 (Euphydryas)
charlotteae Gunder, 1928 (Euphydryas)
ssp. p. cloudcrofti (Ferris & Holland, 1980) (Occidryas)
ssp. q. capella (Barnes, 1897) (Melitaea)
oslari Gunder, 1925 (Euphydryas)

bernadetta subspecies group Bauer, 1975

ssp. r. bernadetta Leussler, 1920 (Euphydryas)
NOTE: The treatment of *bernadetta* as a species-level taxon (e.g., by Kohler & Kondla 2006 and Scott et al. 2006) is premature and not well supported; a detailed investigation is needed.
belli Gunder, 1929 (Euphydryas)
leussleri Gunder, 1927 (Euphydryas)
rorina Scott & Fisher, 2008 (Euphydryas)
ssp. s. veazieae Fender & Jewett, 1953 (Euphydryas)
wenatchee Scott, 2006 (Euphydryas)
ssp. t. bakeri Stallings & Turner, 1945 (Euphydryas)
ssp. u. macyi Fender & Jewett, 1953 (Euphydryas)

wheeleri subspecies group Bauer, 1975

ssp. v. wheeleri (Edwards, 1881) (Melitaea)
ssp. w. morandi Gunder, 1928 (Euphydryas)
ssp. x. variicolor Baughman & Murphy, 1998 (Euphydryas)

Subtribe MELITAEINA Herrich-Schäffer, 1843

Genus POLADRYAS Bauer, 1961

77a0846 P. minuta (Edwards, 1861) (Melitaea) 4515
ssp. a. minuta (Edwards, 1861) (Melitaea)
approximata (Strecker, 1900) (Melitaea)
77a0847 P. arachne (Edwards, 1869) (Melitaea) 4514
ssp. a. arachne (Edwards, 1869) (Melitaea)
gunderiae (Holland, 1930) (Melitaea)
ssp. b. gilensis (Holland, 1930) (Melitaea)
ssp. c. expedita Austin, 1998 (Poladryas)
ssp. d. nympha (Edwards, 1884) (Melitaea)
polingi (Gunder, 1926) (Melitaea)
skinneri (Oberthür, 1923) (Melitaea)
ssp. e. monache (Comstock, 1918) (Melitaea)

Genus CHLOSYNE Butler, 1870
ANEMECA Kirby, 1871
CHARIDRYAS Scudder, 1872
COATLANTONA Kirby, 1871
LIMNAECIA Scudder, 1872
MORPHEIS Geyer, [1833]
SYNCHLOE Doubleday, 1844
THESSALIA Scudder, 1875

77a0848 C. janais (Drury, 1782) (Papilio) 4503
ssp. a. janais (Drury, 1782) (Papilio)
77a0849 C. definita (Aaron, 1885) (Melitaea) 4500
ssp. a. definita (Aaron, 1885) (Melitaea)
albiplaga (Aaron, 1885) (Melitaea)
schausi (Godman & Salvin, 1901) (Melitaea)
ssp. b. anastasia (Hemming, 1934) (Melitaea)
beckeri (Godman & Salvin, 1901) (Melitaea)
77a0850 C. endeis (Godman & Salvin, 1894) (Synchloë) 4501
pardelina Higgins, 1960 (Chlosyne)
77a0851E C. erodyle (Bates, 1864) (Synchloe) EXCL. 4502
NOTE: No verified NA records of this species are known; it was excluded from the NA fauna by Pelham (2008).
77a0852 C. melitaeoides (Felder & Felder, 1867) (Synchloe)
STRAY [NEW]
marina of authors; (not Geyer, [1833]) (Araschnia) misappl.
NOTE: *C. marina* was reported from NA by Scott (1986), based on a taxonomic concept that grouped *C. melitaeoides*, *C. marina*, and *C. eumeda* as a single species. However, under the current concept, "true" *C. marina* does not occur in NA (Pelham 2008).
77a0853 C. eumeda (Godman & Salvin, 1894) (Synchloë) [NEW]
dryope (Godman & Salvin, 1894) (Synchloë)
fasciata Röber, 1914 (Chlosyne)
77a0854 C. rosita Hall, 1924 (Chlosyne) extralim.; STRAY 4504
ssp. a. browni Bauer, 1960 (Chlosyne) (stray)
ssp. b. montana Hall, 1924 (Chlosyne) (stray)
77a0855 C. theona (Ménétriés, 1855) (Melitaea) extralim. 4508
ssp. a. thekla (Edwards, 1870) (Melitaea)
benjamini (Gunder, 1928) (Melitaea)
ssp. b. bollii (Edwards, 1877) (Melitaea)
ssp. c. perlula (Felder & Felder, 1861) (Eresia) (excl.)
NOTE: This South American subspecies was reported in error from NA by Skinner (1905).
77a0856 C. chinatiensis (Tinkham, 1944) (Melitaea) 4509
NOTE: Zhang et al. (2020) confirmed that *C. chinatiensis* is a species distinct from *C. theona*.
77a0857 C. cyneas (Godman & Salvin, 1878) (Phyciodes) 4507
infrequens (Gunder, 1928) (Melitaea)
77a0858 C. fulvia (Edwards, 1879) (Melitaea) 4506
sinefascia (Williams, 1914) (Melitaea)
77a0859 C. coronado (Smith & Brock, 1988) (Thessalia) [NEW]
NOTE: Zhang et al. (2020) determined that *C. coronado* is a species distinct from *C. fulvia* and gave precedence to *coronado* over *pariaensis* as first revisors.
ssp. a. pariaensis (Smith & Brock, 1988) (Thessalia)
ssp. b. coronado (Smith & Brock, 1988) (Thessalia)
77a0860 C. leanira (Felder & Felder, 1860) (Melitaea) 4505
ssp. a. oregonensis Bauer, 1975 (Chlosyne)
ssp. b. leanira (Felder & Felder, 1860) (Melitaea)
daviesi (Wind, 1947) (Melitaea)
ssp. c. obsoleta (Edwards, 1877) (Melitaea)
leona (Wright, 1905) (Melitaea)
ssp. d. nebularum (Austin & Smith, 1998) (Thessalia)
ssp. e. elegans (Priestaf & Emmel, 1998) (Thessalia)
ssp. f. wrightii (Edwards, 1886) (Melitaea)
carolynae (Gunder, 1926) (Melitaea)
cerrita (Wright, 1905) (Melitaea)
pelona (Gunder, 1930) (Melitaea)
ssp. g. alma (Strecker, [1878]) (Melitaea)
koebelei (Gunder, 1927) (Lemonias)
ssp. h. basinensis (Austin & Smith, 1998) (Thessalia)
ssp. i. flavodorsalis (Austin & Smith, 1998) (Thessalia)
77a0861 C. californica (Wright, 1905) (Synchloe) 4498
chinoi Gunder, 1924 (Chlosyne)
77a0862E C. ehrenbergii (Geyer, [1833]) (Morpheis) EXCL. [NEW]
NOTE: A questionable TX record was reported by Kendall & McGuire (1984). It was listed and misspelled "*ehrenbergeri*" by Poole & Gentili (1996). It was excluded from the NA fauna by Pelham (2008).
77a0863 C. lacinia (Geyer, 1837) (Araschnia) extralim. 4499
ssp. a. crocale (Edwards, 1874) (Synchloe)
bicolor (Cockerell, 1893) (Synchloe)
flavida Higgins, 1960 (Chlosyne)
inghami Gunder, 1928 (Chlosyne)
nigra (Cockerell, 1893) (Synchloe)
nigrescens (Edwards, 1893) (Synchloe)
rufa (Cockerell, 1893) (Synchloe)
rufescens (Edwards, 1893) (Synchloe)
ssp. b. adjutrix Scudder, 1875 (Chlosyne)
77a0864 C. gorgone (Hübner, [1810]) (Dryas) 4489
carlota (Reakirt, 1866) (Eresia)
NOTE: Calhoun (2011) discussed this name at length and suggests this synonymy. See also Calhoun (2018a).
carlotta; [various, no date] (Chlosyne) missp.
ismeria (Boisduval & Le Conte, [1835]) (Melitaea)
nigra (Cary, 1901) (Phyciodes)
77a0865 C. nycteis (Doubleday, 1847) (Melitaea) 4490
ssp. a. pastoron Pelham, 2008 (Chlosyne)
obsoleta Gatrelle, 2003 (Chlosyne)
ssp. b. nycteis (Doubleday, 1847) (Melitaea)
greyi (Field, 1934) (Phyciodes)
lacteus (Gunder, 1928) (Phyciodes)
millburni (Rummel, 1926) (Phyciodes)
oenone (Scudder, 1863) (Melitaea)
ssp. c. reversa (Chermock & Chermock, 1940) (Phyciodes)
ssp. d. drusius (Edwards, 1884) (Phyciodes)
hewitsoni (Field, 1936) (Phyciodes)
77a0866 C. harrisii (Scudder, 1863) (Melitaea) 4491
ssp. a. harrisii (Scudder, 1863) (Melitaea)
ssp. b. albimontana (Avinoff, 1930) (Melitaea)
ssp. c. liggetti (Avinoff, 1930) (Melitaea)
ssp. d. hanhami (Fletcher, 1903) (Phyciodes)
77a0867 C. hoffmanni (Behr, 1863) (Melitaea) 4497
ssp. a. hoffmanni (Behr, 1863) (Melitaea)
abnorma (Wright, 1905) (Melitaea)
helcita (Boisduval, 1869) (Melitaea)
hollandae (Gunder, 1928) (Melitaea)
ssp. b. segregata (Barnes & McDunnough, 1918) (Melitaea)
bridgei (Comstock, 1924) (Melitaea)
ssp. c. manchada Bauer, 1960 (Chlosyne)
77a0868 C. acastus (Edwards, [1874] 1870) (Melitaea) 4493
NOTE: The name *acastus* has long been associated with this suite of taxa.
ssp. a. sabina (Wright, 1905) (Melitaea)
ssp. b. neumoegeni (Skinner, 1895) (Melitaea) [4494]
boharti (Gunder, 1933) (Melitaea)
fridayi (Gunder, 1932) (Melitaea)
ssp. c. acastus (Edwards, [1874] 1870) (Melitaea)
ssp. d. arkanyon Fisher & Scott, 2006 (Chlosyne)
ssp. e. vallismortis (Johnson, 1938) (Melitaea) emend.
ssp. f. robusta Austin, 1998 (Chlosyne)
ssp. g. waucoba Emmel, Emmel & Mattoon, 1998 (Chlosyne)
pearlae (Gunder, 1926) (Melitaea)
ssp. h. dorothyi Bauer, 1975 (Chlosyne)
77a0869 C. gabbii (Behr, 1863) (Melitaea) 4495
ssp. a. gabbii (Behr, 1863) (Melitaea)
gunderi (Comstock, 1926) (Melitaea)
newcombi (Comstock, 1926) (Melitaea)
pasadenae (Gunder, 1924) (Euphydryas)
pola (Boisduval, 1869) (Melitaea)
sonorae (Boisduval, 1869) (Melitaea)
ssp. b. atrifasciata Hawks & Emmel, 1998 (Chlosyne)

77a0870 C. palla (Boisduval, 1852) (Melitaea) 4492
ssp. a. sterope (Edwards, 1870) (Melitaea)
NOTE: Zhang et al. (2022d) definitively moved the contentious subspecies *sterope* from *C. acastus* to *C. palla*, based on genetic examination of the type specimens of the taxa in question.
hewesi (Leussler, 1931) (Melitaea)
hopfingeri (Gunder, 1934) (Melitaea)
ssp. b. eremita (Wright, 1905) (Melitaea)
hemifusa (Gunn, 1930) (Melitaea)
ssp. c. blackmorei Pelham, 2008 (Chlosyne)
blackmorei (Gunder, 1926) (Melitaea)
ssp. d. palla (Boisduval, 1852) (Melitaea)
stygiana (Comstock, 1926) (Melitaea)
wardi (Oberthür, 1914) (Melitaea)
ssp. e. altasierra Emmel, Emmel & Mattoon, 1998 (Chlosyne)
NOTE: Prior to the description of subspecies *altasierra* in 1998, the name *whitneyi* Behr was used as a subspecies of *C. palla* by many authors (e.g., Howe 1975; Miller & Brown 1981). *Chlosyne whitneyi* is now considered to be a separate valid species.
vanduzeei (Gunder, 1928) (Melitaea)
ssp. f. australomontana Emmel, Emmel & Mattoon, 1998 (Chlosyne)
ssp. g. flavula (Barnes & McDunnough, 1918) (Melitaea)
ssp. h. calydon (Holland, 1931) (Melitaea)

77a0871 C. whitneyi (Behr, 1863) (Melitaea) [NEW]
NOTE: The name *whitneyi* was historically treated as a subspecies of *C. palla*; see note under *C. palla antasierra*.
malcolmi (Comstock, 1926) (Melitaea)

77a0872 C. damoetas (Skinner, 1902) (Melitaea) 4496
ssp. a. damoetas (Skinner, 1902) (Melitaea)
ssp. b. windriver Scott, 1998 (Chlosyne)
ssp. c. altalus Scott, 1998 (Chlosyne)
damoetella (McDunnough, 1927) (Melitaea)

Genus MICROTIA Bates, 1864
NOTE: Zhang et al. (2021) determined that *Dymasia* and *Texola* are synonyms of *Microtia*, confirming assertions by several previous authors.
DYMASIA Higgins, 1960
TEXOLA Higgins, 1959

77a0873 M. elada (Hewitson, 1868) (Eresia) extralim. 4513
ssp. a. ulrica (Edwards, 1877) (Melitaea)
imitata (Strecker, [1878]) (Melitaea)

77a0874 M. perse (Edwards, 1882) (Melitaea) [NEW]
NOTE: Treated as a species-level taxon based on personal communications by JPP with Nick Grishin, Charles Bordelon, and Jim Brock.
suffusa (Ottolengui, 1895) (Melitaea)

77a0875 M. dymas (Edwards, 1877) (Melitaea) 4511
ssp. a. dymas (Edwards, 1877) (Melitaea)
larunda (Strecker, [1878]) (Melitaea)
senrabii (Barnes, 1900) (Melitaea)
ssp. b. chara (Edwards, [1884]) (Melitaea) [4512]
ssp. c. imperialis Bauer, 1959 (Microtia)
jacintoi (Gunder, 1924) (Melitaea)
nitela (Comstock, 1926) (Melitaea)

77a0876 M. elva Bates, 1864 (Microtia) 4510
ssp. a. elva Bates, 1864 (Microtia)

Genus TEGOSA Higgins, 1981

77a0877 T. luka Higgins, 1981 (Tegosa) [NEW]
anieta of authors; (not Hewitson, 1864) (Eresia) misappl.
NOTE: Reported from NA under a previous taxonomic concept. As currently defined, *T. luka* is the NA taxon and *T. anieta* does not occur north of Mexico. This species was listed twice by Poole & Gentili (1996), in *Phyciodes* and in *Tegosa*.

Genus JANATELLA Higgins, 1981 (excl.)

77a0878E J. leucodesma (Felder & Felder, 1861) (Eresia) EXCL. 4479
NOTE: This Central and South American species was reported by Miller & Brown (in Hodges et al. 1983) as questionably occurring in NA, based on the TL of synonym *cincta*, which was described from "Texas. Florida" in error (Pelham 2008).
cincta (Edwards, 1864) (Eresia) (excl.)

Genus ANTHANASSA Scudder, 1875
TRITANASSA Forbes, 1945

77a0879E A. ardys (Hewitson, 1864) (Eresia) EXCL. [NEW]
NOTE: The sole record of this species from TX has not been verified (Pelham 2008).

77a0880E A. drusilla (Felder & Felder, 1861) (Eresia) EXCL. [NEW]
NOTE: The sole record of this species from TX has not been verified (Pelham 2008). It was listed by Poole & Gentili (1996) as *Phyciodes alethes*, now a synonym.
alethes (Bates, 1864) (Melitaea) (excl.)

77a0881 A. texana (Edwards, 1863) (Melitaea) 4476
ssp. a. texana (Edwards, 1863) (Melitaea)
smerdis (Hewitson, 1864) (Eresia)
ssp. b. seminole (Skinner, 1911) (Eresia)

77a0882 A. ptolyca (Bates, 1864) (Melitaea) STRAY 4477
ssp. a. ptolyca (Bates, 1864) (Melitaea) (stray)

77a0883 A. frisia (Poey, 1832) (Melitea [sic]) 4478
ssp. a. frisia (Poey, 1832) (Melitea [sic])
gyges (Hewitson, 1864) (Eresia)

77a0884 A. tulcis (Bates, 1864) (Melitaea) [NEW]
archesilea (Felder, 1869) (Eresia)
carrera (Hall, 1917) (Phyciodes)
genigueh (Reakirt, [1866]) (Eresia)
punctata (Edwards, 1870) (Eresia)

77a0885 A. argentea (Godman & Salvin, 1882) (Phyciodes) STRAY [NEW]

77a0886E A. nebulosa (Godman & Salvin, 1878) (Phyciodes) EXCL. [NEW]
NOTE: The synonym *subconcolor* was described from "Benson, Arizona" based on mislabeled specimens; *A. nebulosa* does not occur in NA (Pelham 2008). It was listed by Poole & Gentili (1996) as "*Phyciodes nebulosa*".
subconcolor (Röber, 1913) (Phyciodes) (excl.)

Genus PHYCIODES Hübner, [1819]

77a0887 P. tharos (Drury, 1773) (Papilio) 4481
ssp. a. tharos (Drury, 1773) (Papilio)
distincta Bauer, 1975 (Phyciodes)
euclea (Bergsträsser, [1780]) (Papilio)
packardii (Saunders, 1868) (Melitaea)
tharossa (Godart, 1819) (Argynnis)
ssp. b. riocolorado Scott, 1992 (Phyciodes)

77a0888 P. incognitus Gatrelle, 2004 (Phyciodes) [NEW]
NOTE: Raised from subspecies of *P. cocyta* by Zhang et al. (2022d).

77a0889 P. cocyta (Cramer, [1777]) (Papilio) [NEW]
ssp. a. cocyta (Cramer, [1777]) (Papilio)
arctica dos Passos, 1935 (Phyciodes)
morpheus (Fabricius, 1775) (Papilio)
ssp. b. selenis (Kirby, 1837) (Melitaea)
dyari Gunder, 1928 (Phyciodes)
herse Hall, 1924 (Phyciodes)
macdunnoughi; dos Passos, 1964 (Phyciodes) emend.
marcia (Edwards, 1868) (Melitaea)
mcdunnoughi Gunder, 1928 (Phyciodes)
nigrescens Hall, 1924 (Phyciodes)
reaghi Reiff, 1913 (Phyciodes)
ssp. c. pascoensis Wright, 1905 (Phyciodes)
ssp. d. arenacolor Austin, 1998 (Phyciodes)
ssp. e. apache Scott & Opler, 2017 (Phyciodes)

77a0890 P. anasazi Scott, 1994 (Phyciodes) [NEW]
NOTE: Zhang et al. (2022d) raised *P. anasazi* from subspecies of *P. batesii* and placed *apsaalooke* as a subspecies of it.
ssp. a. anasazi Scott, 1994 (Phyciodes)
ssp. b. apsaalooke Scott, 1994 (Phyciodes)

77a0891 P. diminutor Scott, 1998 (Phyciodes) [NEW]
NOTE: Zhang et al. (2022d) raised *P. diminutor* from subspecies of *P. cocyta*.

77a0892 P. batesii (Reakirt, [1866]) (Eresia) 4482
ssp. a. lakota Scott, 1994 (Phyciodes)
ssp. b. saskatchewan Scott, 2006 (Phyciodes)
harperi Gunder, 1932 (Phyciodes)
ssp. c. batesii (Reakirt, [1866]) (Eresia)
ssp. d. maconensis Gatrelle, 1998 (Phyciodes)

77a0893 P. pulchella (Boisduval, 1852) (Melitaea) [NEW]
ssp. a. tutchone Scott, 1994 (Phyciodes)
ssp. b. owimba Scott, 1998 (Phyciodes)
ssp. c. pulchella (Boisduval, 1852) (Melitaea)
campestris (Behr, 1863) (Melitaea) *[4483]*
pratensis (Behr, 1863) (Melitaea)
ssp. d. deltarufa Scott, 1998 (Phyciodes)
ssp. e. montana (Behr, 1863) (Melitaea)
orsa (Boisduval, 1869) (Melitaea)
ssp. f. vallis Austin, 1998 (Phyciodes)
ssp. g. inornatus Austin, 1998 (Phyciodes)
ssp. h. shoshoni Scott, 1994 (Phyciodes)
ssp. i. camillus Edwards, 1871 (Phyciodes)

emissa Edwards, 1871 (Phyciodes)
jemezensis Brehme, 1913 (Phyciodes)
rohweri Cockerell, 1913 (Phyciodes)
sacramento Scott, 2006 (Phyciodes)
NOTE: Synonymy by Scott & Opler (2017).
tristis Cockerell, 1913 (Phyciodes)

77a0894 P. orantain Scott, 1998 (Phyciodes) [NEW]
NOTE: Raised from subspecies of *P. cocyta* by Zhang et al. (2022d).

77a0895 P. orseis Edwards, 1871 (Phyciodes) 4486
ssp. a. orseis Edwards, 1871 (Phyciodes)
edwardsi Gunder, 1927 (Phyciodes)
ssp. b. herlani Bauer, 1975 (Phyciodes)

77a0896 P. pallida (Edwards, 1864) (Melitaea) 4487
ssp. a. pallida (Edwards, 1864) (Melitaea)
mata (Reakirt, 1866) (Eresia)
ssp. b. barnesi Skinner, 1897 (Phyciodes)

77a0897 P. mylitta (Edwards, 1861) (Melitaea) 4488
ssp. a. mylitta (Edwards, 1861) (Melitaea)
collina (Behr, 1863) (Melitaea)
collinsi Gunder, 1930 (Phyciodes)
epula (Boisduval, 1869) (Melitaea)
macyi Fender, 1930 (Phyciodes)
ssp. b. arizonensis Bauer, 1975 (Phyciodes)
ssp. c. thebais Godman & Salvin, 1878 (Phyciodes) (excl.)
NOTE: This Mexican subspecies of *P. mylitta* was listed from NA (as a full species) in error by Miller & Brown (1981) and Poole & Gentili (1996). It does not occur in NA.

77a0898 P. phaon (Edwards, 1864) (Melitaea) 4480
aestiva Edwards, 1878 (Phyciodes)
hiemalis Edwards, 1878 (Phyciodes)
nox Gunder, 1928 (Phyciodes)

77a0899 P. jalapeno Scott, 1998 (Phyciodes) [NEW]
NOTE: Raised from subspecies of *P. phaon* by Zhang et al. (2022d).
thornei Gunder, 1934 (Phyciodes)

77a0900 P. pallescens (Felder, 1869) (Eresia) [NEW]
NOTE: Recorded from the USA by Stanford (2007) and McDermott (2009).

77a0901 P. picta (Edwards, 1865) (Melitaea) 4484
ssp. a. picta (Edwards, 1865) (Melitaea)
ssp. b. canace Edwards, 1871 (Phyciodes)

77a0902 P. graphica (Felder, 1869) (Eresia) [NEW]
aestiva Edwards, 1878 (Phyciodes)
boucardi Godman & Salvin, 1878 (Phyciodes)
hiemalis Edwards, 1878 (Phyciodes)
vesta (Edwards, 1869) (Melitaea) [4485]
vestalis Hall, 1929 (Phyciodes)

Genus MELITAEA [Fabricius, in: Illiger], 1807 (excl.)

Subgenus MELLICTA Billberg, 1820 (excl.)

77a0903E M. athalia (Rottemburg, 1775) (Papilio) EXCL. [NEW]
NOTE: A NA specimen reported by Bauer (in Ehrlich & Ehrlich 1961) is presumed to be mislabeled (Pelham 2008).

77a0904E M. britomartis Assman, 1847 (Melitaea) EXCL. [NEW]
NOTE: Historical reports of this species in NA were based on mislabeled or misidentified material (Pelham 2008).

Subfamily CHARAXINAE Guenée, 1865

Tribe PREPONINI Rydon, 1971

Genus ARCHAEOPREPONA Fruhstorfer, 1915
PSEUDOPREPONA Le Moult, 1932

77a0905 A. demophon (Linnaeus, 1758) (Papilio) extralim. [NEW]
NOTE: Subspecies *centralis* was reported from TX in the 2007 Season Summary of the Lepidopterists' Society (2008).
ssp. a. centralis (Fruhstorfer, 1905) (Prepona)

Genus PREPONA Boisduval, 1836
MORPHO Hübner, [1819]

77a0906 P. laertes (Hübner, [1811]) (Potamis) extralim. [NEW]
NOTE: Breeding populations were reported from FL by Hayden (2013a).
ssp. a. octavia Fruhstorfer, 1905 (Prepona)
amesia Fruhstorfer, 1905 (Prepona)
apollinari Le Moult, 1932 (Prepona)
aquacensis Le Moult, 1932 (Prepona)
caucensis Le Moult, 1932 (Prepona)
draudti Le Moult, 1932 (Prepona)
fonquerniei Le Moult, 1932 (Prepona)
guatemalensis Le Moult, 1932 (Prepona)
hondurensis Le Moult, 1932 (Prepona)
lichyi Le Moult, 1932 (Prepona)
naranjensis Le Moult, 1932 (Prepona)
panamensis Le Moult, 1932 (Prepona)
reducta Le Moult, 1932 (Prepona)
schausi Le Moult, 1932 (Prepona)
subamesia Le Moult, 1932 (Prepona)
subdives Le Moult, 1932 (Prepona)
subomphale Le Moult, 1932 (Prepona)

Tribe ANAEINI Reuter, 1896

Genus MEMPHIS Hübner, [1819]
ANNAGRAPHA Salazar & Constantino, 2001
CORYCIA Hübner, [1825]
CYMATOGRAMMA Doubleday, [1849]
EUSCHATZIA Grote, 1898
RYDONIA Salazar & Constantino, 2001

Memphis verticordia group Comstock, 1961

77a0907 M. echemus (Doubleday, [1849]) (Cymatogramma) STRAY [NEW]
NOTE: The single record of this species from USA (Kendall & Mcguire 1984) apparently represents a rare stray, or possibly a human-assisted import.
ssp. a. echemus (Doubleday, [1849]) (Cymatogramma) (stray)
aguayoi (Torre, 1951) (Anaea)
poeyi (Lucas, 1857) (Megalura)

Memphis arginussa group Comstock, 1961

77a0908 M. pithyusa (Felder, 1869) (Nymphalis) 4556
ssp. a. pithyusa (Felder, 1869) (Nymphalis)
daguana Bargmann, 1929 (Memphis)

Memphis polycarmes group Comstock, 1961

77a0909 M. forreri (Godman & Salvin, 1893) (Anaea) [NEW]
NOTE: Recorded from TX by Bordelon (2008).

Genus ANAEA Hübner, [1819]
NOTE: Zhang et al. (2021) determined that *Fountainea* is a subgenus of *Aenea*. That is adopted herein.

Subgenus ANAEA Hübner, [1819]
PYRRHANAEA Röber, [1888]

77a0910 A. troglodyta (Fabricius, 1775) (Papilio) extralim. [NEW]
ssp. a. floridalis Johnson & Comstock, 1941 (Anaea) [4553]
floraesta Johnson & Comstock, 1941 (Anaea)

77a0911 A. aidea (Guérin-Méneville, [1844]) (Nymphalis) 4552
appiciata Röber, 1916 (Anaea)
morrisonii (Edwards, 1883) (Paphia)

77a0912 A. andria Scudder, 1875 (Anaea) 4554
andriaesta Johnson & Comstock, 1941 (Anaea)
morrisonii Scott, 1986 (Anaea)
ops (Druce, 1877) (Paphia)

Subgenus FOUNTAINEA Rydon, 1971

77a0913 A. glycerium (Doubleday, [1849]) (Paphia) STRAY 4555
ssp. a. glycerium (Doubleday, [1849]) (Paphia) (stray)

Subfamily SATYRINAE Boisduval, [1833]

Tribe MELANITINI Reuter, 1896

Genus MANATARIA Kirby, [1904]

77a0914 M. hercyna (Hübner, [1821]) (Tisiphone) UNVER. [NEW]
NOTE: This species was reported from NA by Snider (2012), but the origin of the specimen is uncertain; it may be an unestablished introduction.

Tribe SATYRINI Boisduval, [1833]

Subtribe COENONYMPHINA Tutt, 1896

Genus COENONYMPHA Hübner, [1819]
CHORTOBIUS Doubleday, 1859
CHORTOBIUS [Dunning & Pickard, 1859]

DISOMMATA Korb & Bolshakov, 2011
SICCA Verity, 1953

77a0915 C. haydenii (Edwards, 1872) (Erebia) 4581
77a0916 C. tullia (Müller, 1764) (Papilio) extralim. H [NEW]
ssp. a. yukonensis Holland, 1900 (Coenonympha)
ssp. b. mixturata Alphéraky, 1897 (Coenonympha)
ssp. c. kodiak Edwards, 1869 (Caenonympha [sic]) [4582]
viluiensis of authors; not Ménétriés, 1859 (Coenonympha) misappl.
NOTE: Reported from AK by Guppy & Shepard (2001), but that is erroneous; this subspecies does not occur in NA.
77a0917 C. california Westwood, [1851] (Coenonympha) [NEW]
NOTE: Kodandaramaiah & Wahlberg (2009) and Kodandaramaiah et al. (2018) gave evidence that some New World populations in the *tullia* complex represent a distinct species. Zhang et al. (2020) resolved this further, recognizing *C. california* as a distinct species, and the latter treatment is adopted herein.
ssp. a. nipisiquit McDunnough, 1939 (Coenonympha)
NOTE: This taxon was treated as a full species by Layberry et al. (1998), Pohl et al. (2018) and others.
ssp. b. mcisaaci dos Passos, 1935 (Coenonympha)
macisaaci; dos Passos, 1964 (Coenonympha) emend.
ssp. c. inornata Edwards, 1861 (Coenonympha) [4583]
heinemani Brown, [1959] (Coenonympha)
quebecensis Barnes & Benjamin, 1926 (Coenonympha)
ssp. d. benjamini McDunnough, 1928 (Coenonympha)
bottineauensis Chermock, Simmons & Chermock, 1963 (Coenonympha)
ssp. e. mackenziei Davenport, 1936 (Coenonympha)
ssp. f. insulana McDunnough, 1928 (Coenonympha)
ssp. g. yontocket Porter & Mattoon, 1989 (Coenonympha)
ssp. h. california Westwood, [1851] (Coenonympha) [4586]
ceres Butler, 1866 (Coenonympha)
galactinus (Boisduval, 1852) (Satyrus)
pulla Edwards, 1881 (Coenonympha)
ssp. i. eryngii Edwards, 1877 (Coenonympha)
siskiyouensis Comstock, 1925 (Coenonympha)
ssp. j. eunomia Dornfeld, 1967 (Coenonympha)
eunomia Field, 1937 (Coenonympha)
ssp. k. columbiana McDunnough, 1928 (Coenonympha)
ssp. l. ampelos Edwards, 1871 (Coenonympha) [4585]
sweadneri Chermock & Chermock, 1941 (Coenonympha)
ssp. m. mono Burdick, 1942 (Coenonympha)
ssp. n. elko Edwards, 1881 (Coenonympha)
ssp. o. pseudobrenda Austin & Gray, 1998 (Coenonympha)
ssp. p. ochracea Edwards, 1861 (Coenonympha) [4584]
albescens Field, 1936 (Coenonympha)
brenda Edwards, 1869 (Caenonympha [sic])
phantasma Burdick, 1956 (Coenonympha)
ssp. q. subfusca Barnes & Benjamin, 1926 (Coenonympha)
ssp. r. furcae Barnes & Benjamin, 1926 (Coenonympha)
77a0918E C. pamphilus (Linnaeus, 1758) (Papilio) EXCL. [NEW]
NOTE: The synonym *pamphiloides* was described from "California" based on mislabeled material. "True" *C. pamphilus* is restricted to the Old World (Pelham 2008).
pamphiloides Reakirt, 1866 (Coenonympha) (excl.)

Subtribe LETHINA Reuter, 1896

Genus LETHE Hübner, [1819]

Subgenus ENODIA Hübner, [1819]

77a0919 L. portlandia (Fabricius, 1781) (Papilio) 4568
ssp. a. floralae Heitzman & dos Passos, 1974 (Lethe)
ssp. b. portlandia (Fabricius, 1781) (Papilio)
androcardia (Hübner, 1821) (Enodia)
andromacha (Hübner, [1809]) (Oreas)
ssp. c. missarkae Heitzman & dos Passos, 1974 (Lethe)
77a0920 L. anthedon (Clark, 1936) (Enodia) 4568.1
ssp. a. anthedon (Clark, 1936) (Enodia)
ssp. b. borealis (Clark, 1936) (Enodia)
77a0921 L. creola (Skinner, 1897) (Debis) 4568.2

Subgenus SATYRODES Scudder, 1875
ARGUS Scopoli, 1777

77a0922 L. eurydice (Linnaeus, 1763) (Papilio) 4568.3
ssp. a. eurydice (Linnaeus, 1763) (Papilio)
boisduvalii (Harris, 1862) (Hipparchia) emend.
boisduvallii; (Harris, 1862) (Hipparchia) orig. missp.
boweri (Chermock, 1927) (Satyrodes)
canthus (Linnaeus, 1767) (Papilio)
rawsoni (Field, 1936) (Satyrodes)
transmontana (Gosse, 1840) (Hipparchia)
ssp. b. fumosus (Leussler, 1916) (Satyrodes)
77a0923 L. appalachia Chermock, 1947 (Lethe) 4569
ssp. a. appalachia Chermock, 1947 (Lethe)
ssp. b. leeuwi Gatrelle & Arbogast, 1974 (Lethe)

Subtribe EUPTYCHIINA Reuter, 1896

Genus CYLLOPSIS Felder, 1869

77a0924 C. pyracmon (Butler, [1867]) (Euptychia) extralim. 4570
ssp. a. henshawi (Edwards, 1876) (Euptychia) [4571]
nabokovi Miller, 1974 (Cyllopsis)
77a0925 C. pertepida (Dyar, 1912) (Euptychia) extralim. 4572
ssp. a. dorothea (Nabokov, 1943) (Neonympha)
edwardsi (Nabokov, 1943) (Neonympha)
ssp. b. maniola (Nabokov, 1943) (Neonympha)
ssp. c. avicula (Nabokov, 1943) (Neonympha)
texana (Wind, 1946) (Neonympha)
77a0926 C. gemma (Hübner, [1818] 1793) (Neonympha) 4573
ssp. a. gemma (Hübner, [1818] 1793) (Neonympha)
cornelius (Fabricius, 1793) (Papilio)
ssp. b. freemani (Stallings & Turner, 1947) (Neonympha)
inductura (Stallings & Turner, 1947) (Neonympha)

Genus PARAMACERA Butler, 1868
PARAMECERA Butler, 1868

77a0927 P. allyni Miller, 1972 (Paramacera) 4580
NOTE: Reinstated as a full species, from subspecies of *P. xicaque*, by Pelham (2022).
xicaque of authors; (not Reakirt, [1867]) (Neonympha) misappl.

Genus CISSIA Doubleday, 1848
ARGYREUPTYCHIA Forster, 1964
VAREUPTYCHIA Forster, 1964

77a0928 C. rubricata (Edwards, 1871) (Euptychia) 4579
NOTE: Placement of this species in *Cissia* rather than *Megisto* follows Zacca et al. (2018).
ssp. a. rubricata (Edwards, 1871) (Euptychia)
ssp. b. smithorum (Wind, 1946) (Megisto)
77a0929 C. cheneyorum (Chermock, 1949) (Euptychia) [NEW]
NOTE: Raised from subspecies of *C. rubricata* by Zhang et al. (2022d).

Genus MEGISTO Hübner, [1819]
PALAEONYMPHA Butler, 1871
NOTE: Zhang et al. (2020) treat *Palaeonympha* as a subgenus of *Megisto* but also provided evidence that it is no more than a synonym, and the latter is followed here.

77a0930 M. cymela (Cramer, [1777]) (Papilio) 4578
ssp. a. cymela (Cramer, [1777]) (Papilio)
eurytus (Fabricius, 1775) (Papilio)
ssp. b. viola (Maynard, 1891) (Neonympha)

Genus HERMEUPTYCHIA Forster, 1964
ID INFO: Cong & Grishin (2014).

77a0931 H. sosybius (Fabricius, 1793) (Papilio) 4575
cantheus (Godart, 1819) (Satyrus)
kappeli Anken, 1993 (Hermeuptychia)
77a0932 H. hermybius Grishin, 2014 (Hermeuptychia) [NEW]
hermes of authors; (not Fabricius, 1775) (Papilio) misappl. *[4574]*
NOTE: Reports of *H. hermes* from NA are based on a previous taxonomic concept; NA material is *H. hermybius* (Cong & Grishin 2014).
77a0933 H. intricata Grishin, 2014 (Hermeuptychia) [NEW]

Genus NEONYMPHA Hübner, 1818

77a0934 N. areolatus (Smith, 1797) (Papilio) 4576
NOTE: We treat the taxon *helicta* and its subspecies as conspecific with *N. areolatus* following Calhoun (2018b).
ssp. a. areolatus (Smith, 1797) (Papilio)
helicta (Hübner, [1808]) (Oreas)
phocion (Fabricius, 1793) (Papilio)
ssp. b. septentrionalis Davis, 1924 (Neonympha)
ssp. c. dadeensis Gatrelle, 1999 (Neonympha)
77a0935 N. mitchellii French, 1889 (Neonympha) 4577
ssp. a. mitchellii French, 1889 (Neonympha)
ssp. b. francisci Parshall & Kral, 1989 (Neonympha)

Subtribe GYROCHEILINA Grishin, 2021

Genus GYROCHEILUS Butler, 1867

77a0936 G. patrobas (Hewitson, 1862) (Pronophila) extralim. 4602
ssp. a. tritonia Edwards, 1874 (Geirochilus [sic])

Subtribe PRONOPHILINA Reuter, 1896 (excl.)

Genus CALISTO Hübner, [1823] (excl.)

77a0937E C. zangis (Fabricius, 1775) (Papilio) EXCL. [NEW]
NOTE: The original description of this species cites a "Carolina" locality in error; it is restricted to South America (Pelham 2008).

Subtribe CERCYONINA Verity, 1953

Genus CERCYONIS Scudder, 1875
NOTE: Zhang et al. (2020) claim that *Hyponephele* Muschamp, 1915 is a subgenus of *Cercyonis*. This awaits confirmation from Old World researchers.

77a0938 C. pegala (Fabricius, 1775) (Papilio) 4587
NOTE: Subspecies arrangement follows Calhoun (2016).
ssp. a. pegala (Fabricius, 1775) (Papilio)
abbotti Brown, 1969 (Cercyonis)
carolina Chermock & Chermock, 1942 (Cercyonis)
ssp. b. alope (Fabricius, 1793) (Papilio)
agawamensis Arey & Grkovich, 2014 (Cercyonis)
maritima (Edwards, 1880) (Satyrus)
ochracea Chermock & Chermock, 1942 (Cercyonis)
ssp. c. texana (Edwards, 1880) (Satyrus)
ssp. d. nephele (Kirby, 1837) (Hipparchia)
borealis Chermock, 1929 (Cercyonis)
olympus (Edwards, 1880) (Satyrus)
ssp. e. ino Hall, 1924 (Cercyonis)
ssp. f. incana (Edwards, 1880) (Satyrus)
ssp. g. boopis (Behr, 1864) (Satyrus)
baroni (Edwards, 1880) (Satyrus)
ssp. h. ariane (Boisduval, 1852) (Satyrus)
ssp. i. australosierra Emmel, Emmel & Davenport, 2008 (Cercyonis)
ssp. j. gabbii (Edwards, 1870) (Satyrus)
ssp. k. carsonensis Austin, 1992 (Cercyonis)
ssp. l. walkerensis Austin, 1992 (Cercyonis)
ssp. m. wheeleri (Edwards, 1873) (Satyrus)
hoffmani (Strecker, 1873) (Satyrus)
ssp. n. paucilineatus Austin, 1992 (Cercyonis)
ssp. o. pluvialis Austin, 1992 (Cercyonis)
ssp. p. paludum Austin, 1992 (Cercyonis)
ssp. q. stephensi (Wright, 1905) (Satyrus)
blanca Emmel & Mattoon, 1972 (Cercyonis)
ssp. r. utahensis Austin, 1992 (Cercyonis)
77a0939 C. meadii (Edwards, 1872) (Erebia) 4588
ssp. a. meadii (Edwards, 1872) (Erebia)
ssp. b. alamosa Emmel & Emmel, 1969 (Cercyonis)
ssp. c. melania (Wind, 1946) (Minois)
ssp. d. damei Barnes & Benjamin, 1926 (Cercyonis)
mexicana Chermock, 1949 (Cercyonis)
77a0940 C. sthenele (Boisduval, 1852) (Satyrus) 4589
ssp. a. masoni Cross, 1937 (Cercyonis)
ssp. b. paulus (Edwards, 1879) (Satyrus)
ssp. c. sineocellata Austin & Emmel, 1998 (Cercyonis)
ssp. d. behrii (Grinnell, 1905) (Satyrus)
ssp. e. sthenele (Boisduval, 1852) (Satyrus)
ssp. f. hypoleuca Hawks & Emmel, 1998 (Cercyonis)

77a0941 C. silvestris (Edwards, 1861) (Satyrus) [NEW]
NOTE: Zhang et al. (2022d) raised *C. silvestris* from subspecies of *C. sthenele* and placed *incognita* as a subspecies of it.
ssp. a. silvestris (Edwards, 1861) (Satyrus)
okius (Oberthür, 1914) (Satyrus)
ssp. b. incognita Emmel, Emmel & Mattoon, 2012 (Cercyonis)
77a0942 C. oetus (Boisduval, 1869) (Satyrus) 4590
ssp. a. charon (Edwards, 1872) (Satyrus)
ssp. b. phocus (Edwards, 1874) (Satyrus)
ssp. c. oetus (Boisduval, 1869) (Satyrus)
ssp. d. pallescens Emmel & Emmel, 1971 (Cercyonis)
ssp. e. alkalorum Austin, 1998 (Cercyonis)

Subtribe EREBIINA Tutt, 1896

Genus EREBIA Dalman, 1816
NOTE: Zhang et al. (2021) revised the generic arrangement, recognizing subgenera *Magda* and *Erebia*.

Subgenus EREBIA Dalman, 1816
EPIGEA Hübner, [1819]
GORGO Hübner, [1819]
MARICA Hübner, [1819]
MEDUSIA Verity, 1953
OREINA Westwood, 1841
PHORCIS Hübner, [1819]
SIMPLICIA Verity, 1953
SIMPLOSPINOSIA Verity, 1957
SYNGEA Hübner, [1819]
TRIARIIA Verity, 1953
TRUNCAEFALCIA Verity, 1953

Erebia pluto group Warren, 1936

77a0943 E. callias Edwards, 1871 (Erebia) 4600
ssp. a. callias Edwards, 1871 (Erebia)
brucei Scott, 1986 (Erebia)
sinocho Scott, 1981 (Erebia)

Erebia alberganus group Warren, 1936

77a0944 E. pawloskii Ménétriés, 1859 (Erebia) extralim. H [NEW]
theano of authors; (not Tauscher, 1809) (Papilio) misappl. *[4597]*
NOTE: This Old World name was applied to NA populations by Layberry et al. (1998) and others under a previous taxonomic concept of a Holarctic entity.
ssp. a. alaskensis Holland, 1900 (Erebia)
ssp. b. canadensis Warren, 1931 (Erebia)
churchillensis Warren, 1936 (Erebia)
sofia Strecker, 1880 (Erebia)
ssp. c. ethela Edwards, 1891 (Erebia)
ssp. d. demmia Warren, 1936 (Erebia)
77a0945 E. lafontainei Troubridge & Philip, 1983 (Erebia) [NEW]
kozhantshikovi of authors; not Sheljuzhko, 1925 (Erebia) misappl.
NOTE: Scott (1986) considered *E. lafontainei* to be conspecific with *E. kozhantshikovi* without justification.
77a0946 E. youngi Holland, 1900 (Erebia) 4598
ssp. a. herscheli Leussler, 1935 (Erebia)
ssp. b. youngi Holland, 1900 (Erebia)
dabanensis of authors; not Ershov, 1871 (Erebia) misappl. *[4601]*
NOTE: Scott (1986) used this name under a previous taxonomic concept; NA populations are treated herein as *E. youngi*.
ssp. c. rileyi dos Passos, 1947 (Erebia)
77a0947 E. occulta Roos & Kimmich, 1983 (Erebia) [NEW]
anyuica of authors; not Kurentzov, 1966 (Erebia) misappl.
NOTE: This name was applied to NA populations (e.g., by Layberry et al. 1998) under a previous taxonomic concept; the name *E. occulta* is used here for NA populations.
ssp. a. occulta Roos & Kimmich, 1983 (Erebia)
phellea Philip & Troubridge, 1983 (Erebia)

Erebia medusa group Warren, 1936

77a0948 E. epipsodea Butler, 1868 (Erebia) 4599
ssp. a. brucei Elwes, 1889 (Erebia)
rhodia Edwards, 1871 (Erebia)
ssp. b. epipsodea Butler, 1868 (Erebia)
hopfingeri Ehrlich, 1954 (Erebia)

ssp. c. sineocellata Skinner, 1889 (Erebia) emend.
freemani Ehrlich, 1954 (Erebia)
ssp. d. remingtoni Ehrlich, 1952 (Erebia)

Erebia vidleri group Warren, 1936

77a0949 E. vidleri Elwes, 1898 (Erebia) 4591

Erebia epiphron group Warren, 1936 (excl.)

77a0950E E. inuitica Wyatt, 1966 (Erebia) EXCL. [NEW]
NOTE: Described from AK and known only from the holotype; the veracity of the TL is considered doubtful by most workers. Ferris (1989) reports that B. C. S. Warren placed it in the *epiphron* group, and that its closest relative appears to be the Palaearctic *E. pharte* (Hübner, [1803-1804]).

Subgenus MAGDA Grishin, 2021

Erebia embla group Warren, 1936

77a0951 E. disa (Thunberg, 1791) (Papilio) extralim. H 4593
ssp. a. steckeri Holland, 1930 (Erebia)
ssp. b. subarctica McDunnough, 1937 (Erebia)
77a0952 E. mancinus Doubleday, [1849] (Erebia) [NEW]

Erebia triarius group Warren, 1936

77a0953 E. rossii (Curtis, 1835) (Hipparchia) 4592
ssp. a. ornata Leussler, 1935 (Erebia)
ssp. b. rossii (Curtis, 1835) (Hipparchia)
anocellus Scott, 1981 (Erebia)
brucei Scott, 1986 (Erebia)
ssp. c. gabrieli dos Passos, 1949 (Erebia)
ssp. d. kuskoquima Holland, 1931 (Erebia)

Erebia magdalena group Warren, 1936

77a0954 E. magdalena Strecker, 1880 (Erebia) 4594
ssp. a. magdalena Strecker, 1880 (Erebia)
ssp. b. hilchie Kemal & Koçak, 2007 (Erebia)
saxicola Hilchie, 1990 (Erebia)
77a0955 E. mackinleyensis Gunder, 1932 (Erebia) [NEW]
77a0956 E. fasciata Butler, 1868 (Erebia) 4595
ssp. a. fasciata Butler, 1868 (Erebia)
suffusa Warren, 1936 (Erebia)
ssp. b. avinoffi Holland, 1930 (Erebia)

Erebia edda group Warren, 1936

77a0957 E. discoidalis (Kirby, 1837) (Hipparchia) 4596
macdunnoughi dos Passos, 1958 (Erebia)
mcdunnoughi dos Passos, 1940 (Erebia)

Genus HOMEONYMPHA Felder & Felder, 1867 (excl.)

77a0958E H. vesagus (Doubleday, [1849]) (Erebia) EXCL. [NEW]
NOTE: This species was erroneously described from "Rocky Mountains". It does not occur in NA (Pelham 2008).

Subtribe SATYRINA Boisduval, [1833]

Genus OENEIS Hübner, [1819]

Subgenus DAVIDINA Oberthür, 1879
LEECHIA Röber, 1907
PROTOENEIS Gorbunov, 2001
SINOSATYRUS Lee, 1988

77a0959 O. uhleri (Reakirt, 1866) (Chionobas) 4607
ssp. a. uhleri (Reakirt, 1866) (Chionobas)
obscura (Edwards, 1892) (Chionobas)
ssp. b. reinthali Brown, 1953 (Oeneis)
ssp. c. varuna (Edwards, 1882) (Chionobas)
dennisi Gunder, 1927 (Oeneis)
ssp. d. cairnesi Gibson, 1920 (Oeneis)
kluanensis Hassler, 2002 (Oeneis)
ssp. e. nahanni Dyar, 1904 (Oeneis)

Subgenus NEOMINOIS Scudder, 1875
NOTE: Relegated to subgenus status by Zhang et al. (2019b).

77a0960 O. ridingsii (Edwards, 1865) (Satyrus) 4603
ssp. a. minimus (Austin, 1986) (Neominois)
ssp. b. wyomingo (Scott, 1998) (Hipparchia)
ssp. c. ridingsii (Edwards, 1865) (Satyrus)
ssp. d. curicata (Fisher, Scott & Garhart, 2008) (Neominois)
ssp. e. coloalbiterra (Garhart & Fisher, 2008) (Neominois)
ssp. f. neomexicanus (Austin, 1986) (Neominois)
ssp. g. stretchii (Edwards, 1870) (Chionobas)
ashtaroth (Strecker, [1878]) (Satyrus)
dionysus (Scudder, 1878) (Neominois)
ssp. h. pallidus (Austin, 1986) (Neominois)
77a0961E O. tarpeia (Pallas, 1771) (Papilio) EXCL. [NEW]
NOTE: An excluded species listed as such by Pohl et al. (2018), based on early reports from "Canada" by Natural History Society of Toronto (1883) and other early authors originating with Butler (1868). Those are all misidentifications; "true" *O. tarpeia* is restricted to the Old World.

Subgenus OENEIS Hübner, [1819]
CHIONOBAS Boisduval, [1833]

Oeneis polixenes group Gorbunov, 2001

77a0962 O. jutta (Hübner, [1806]) (Papilio) extralim. H 4611
ssp. a. balder (Guérin-Méneville, [1832]) (Satyrus)
balderi (Geyer, 1837) (Eumenis)
NOTE: Pohl et al. (2010) treated this taxon as a full species, distinct from European *O. jutta*, but that is not followed here.
ssp. b. terraenovae dos Passos, 1935 (Oeneis) emend.
ssp. c. ascerta Masters & Sorensen, 1968 (Oeneis)
ssp. d. ridingiana Chermock & Chermock, 1940 (Oeneis)
ssp. e. harperi dos Passos, [1977] (Oeneis)
ssp. f. leussleri Bryant, 1935 (Oeneis)
ssp. g. alaskensis Holland, 1900 (Oeneis)
ssp. h. chermocki Wyatt, 1965 (Oeneis)
ssp. i. reducta McDunnough, 1929 (Oeneis)
77a0963 O. melissa (Fabricius, 1775) (Papilio) 4612
ssp. a. semidea (Say, 1828) (Hipparchia)
eritiosa (Boisduval, [1834]) (Chionobas)
nigra (Edwards, 1894) (Chionobas)
ssp. b. melissa (Fabricius, 1775) (Papilio)
ssp. c. semplei Holland, 1930 (Oeneis)
ssp. d. assimilis Butler, 1868 (Oeneis)
arctica Gibson, 1920 (Oeneis)
simulans Gibson, 1920 (Oeneis)
ssp. e. gibsoni Holland, 1930 (Oeneis)
ssp. f. atlinensis Guppy & Shepard, 2001 (Oeneis)
ssp. g. beanii Elwes & Edwards, 1893 (Oeneis)
ssp. h. lucilla Barnes & McDunnough, 1918 (Oeneis)
77a0964 O. philipi Troubridge, 1988 (Oeneis) [NEW]
lafontainei Kral, 1987 (Oeneis)
rosovi of authors; not Kurentzov, 1960 (Oeneis) misappl.
NOTE: This name has been used as a senior synonym of *O. philipi*, (e.g., in Layberry et al. 1998) but the type series is made up of two species so it is nomenclaturally invalid until a lectotype is designated.
77a0965 O. polixenes (Fabricius, 1775) (Papilio) 4613
ssp. a. katahdin (Newcomb, 1901) (Chionobas)
ssp. b. polixenes (Fabricius, 1775) (Papilio)
oeno (Boisduval, [1834]) (Chionobas)
ssp. c. subhyalina (Curtis, 1835) (Hipparchia)
peartiae (Edwards, 1897) (Chionobas)
ssp. d. beringianus Kurentsov, 1970 (Oeneis)
luteus Troubridge & Parshall, 1988 (Oeneis)
tschukotkensis Kurentsov, 1970 (Oeneis)
ssp. e. woodi Troubridge & Parshall, 1988 (Oeneis)
ssp. f. yukonensis Gibson, 1920 (Oeneis)
ssp. g. brucei (Edwards, 1891) (Chionobas)

Oeneis hora group Gorbunov, 2001

77a0966 O. alpina Kurentsov, 1970 (Oeneis) extralim. H [NEW]
ssp. a. excubitor Troubridge, Philip, Scott & Shepard, 1982 (Oeneis)

Oeneis bore group Gorbunov, 2001

77a0967 O. bore (Schneider, 1792) (Papilio) extralim. H 4610
NOTE: Heppner (1981c) detailed the date of Esper's description of *Papilio bore* as 1789. However, Lamas (2013) demonstrated that that date is incorrect and that Schneider is the author of this name.
norna of authors; not Thunberg, 1791 (Oeneis) misid.
NOTE: Listed from "northern Alaska..." by Edwards (1886, 1894), but these are misidentifications. "True" *O. norna* is Palaearctic.
ssp. a. taygete Geyer, [1830] (Oeneis) [4609]

bootes (Boisduval, [1834]) (Chionobas)
ssp. b. gaspeensis dos Passos, 1949 (Oeneis)
ssp. c. hanburyi Watkins, 1928 (Oeneis)
ssp. d. mckinleyensis dos Passos, 1949 (Oeneis)
mackinleyensis; dos Passos, 1958 (Oeneis) emend.
ssp. e. fordi dos Passos, 1949 (Oeneis)
ssp. f. edwardsi dos Passos, 1949 (Oeneis)

77a0968 O. chryxus (Doubleday, [1849]) (Chionobas) 4606
ssp. a. strigulosa McDunnough, 1934 (Oeneis)
ssp. b. calais (Scudder, 1865) (Chionobas)
NOTE: Pohl et al. (2010) treated this taxon as a species distinct from *O. chryxus*, but that is not followed here.
ssp. c. caryi Dyar, 1904 (Oeneis)
ssp. d. altacordillera Scott, 2006 (Oeneis)
ssp. e. chryxus (Doubleday, [1849]) (Chionobas)
ssp. f. socorro Holland, 2010 (Oeneis)
ssp. g. valerata Burdick, 1958 (Oeneis)
ssp. h. ivallda (Mead, 1878) (Chionobas) [4603.1]
ssp. i. stanislaus Hovanitz, 1937 (Oeneis)

77a0969 O. tanana Warren & Nakahara, 2016 (Oeneis) [NEW]

77a0970 O. alberta Elwes, 1893 (Oeneis) 4608
ssp. a. alberta Elwes, 1893 (Oeneis)
ssp. b. ojibwe Scott & Kondla, 2006 (Oeneis)
ssp. c. oslari Skinner, 1911 (Oeneis)
ssp. d. capulinensis Brown, 1970 (Oeneis)
ssp. e. daura (Strecker, 1894) (Chionobas)

77a0971 O. nevadensis (Felder & Felder, 1867) (Chionobas) 4604
ssp. a. gigas Butler, 1868 (Oeneis)
ssp. b. nevadensis (Felder & Felder, 1867) (Chionobas)
californica (Boisduval, 1869) (Chionobas)
ssp. c. iduna (Edwards, 1874) (Chionobas)

77a0972 O. macounii (Edwards, 1885) (Chionobas) 4605

Tribe MORPHINI Newman, 1834

Subtribe MORPHINA Newman, 1834

Genus MORPHO [Fabricius, in: Illiger], 1807
BALACHOWSKYNA Le Moult & Réal, 1962
BRASSOLIS [Illiger], 1807
CYPRITIS Le Moult & Réal, 1962
CYTHERITIS Le Moult & Réal, 1962
GRASSEIA Le Moult & Réal, 1962
HELIORNIS Billberg, 1820
IPHIMEDEIA Fruhstorfer, 1912
IPHIXIBIA Le Moult & Réal, 1962
LEONTE Hübner, [1819]
MEGAMEDE Hübner, [1819]
PESSONIA Le Moult & Réal, 1962
POTAMIS Hübner, [1807]
SCHWARTZIA Blandin, 1988
ZEUXIDION Le Moult & Réal, 1962

77a0973 M. polyphemus Westwood, 1850 (Morpho) [NEW]
ssp. a. polyphemus Westwood, [1850] (Morpho)
chromomene Le Moult & Réal, 1962 (Morpho)
psukhe Le Moult & Réal, 1962 (Morpho)
selene Le Moult & Réal, 1962 (Morpho)

77a0974 M. peleides Kollar, 1850 (Morpho) UNVER. [NEW]
NOTE: A sight record of this species has been reported by various workers, but it cannot be verified and the species was excluded from the NA fauna by Pelham (2008).

Subtribe BRASSOLINA Boisduval, 1836 (excl.)

Genus OPSIPHANES Godman & Salvin, [1881] (excl.)

77a0975E O. boisduvallii Doubleday, [1849] (Opsiphanes) EXCL. [NEW]
NOTE: Report of this species in NA was based on a specimen of uncertain origin; it was excluded from the NA fauna by Pelham (2008).

Superfamily PYRALOIDEA Latreille, 1809

Once regularly placed with “microlepidoptera”, the superfamily Pyraloidea is now known to be firmly placed in the higher Ditrysia with other “macrolepidoptera” (Kawahara & Breinholt 2014). Over the last several decades the membership of the superfamily Pyraloidea has been limited to the Crambidae and Pyralidae, omitting families such as the Pterophoridae, Alucitidae, Thyrididae and Hyblaeidae which were once included in the superfamily (see references in Solis 2007).

76. Family PYRALIDAE Latreille, 1809

by Brian G. Scholtens and James E. Hayden

Pyralid moths in NA range in wingspan from very small (just over 6 mm in small individuals of *Cabnia myronella*) to medium-sized (nearly 50 mm in some species of *Melitara*). The forewings of most adults are various shades of gray and brown with complex patterns typically consisting of common elements including: anteromedial, posteromedial, and subterminal lines; and discal spots (often fused). Hindwings are mostly unmarked gray, often slightly darker at the margins.

Diagnostic characters of the Pyralidae include the structure of the tympanal organs, wing venation, maculation, and several larval chaetotaxic characters (see Crambidae for details).

Pyralid feeding habits are diverse, but the family seems to include a greater number of detritivores and species that feed on dry or rotting organic material than does the Crambidae. The Chrysauginae includes many taxa that feed on Bignoniaceae, but other species vary widely (Hayden et al. 2017). Most tropical Galleriinae feed on monocots, but the Nearctic representatives are inquilines in Hymenoptera nests or feed on scale insects (Solis 2007). Most Epipaschiinae are leafrollers (Solis 1993, 2007), and Pyralinae in NA mostly feed on dead, rotten leaves (e.g., *Hypsopygia*) or scavenge (*Aglossa*) (Neunzig, in: Stehr et al. 1987). Many Phycitinae are leaf webbers or rollers, with frass often incorporated in the silk web, and stem and seed borers are also prominent. Several species are important pests of stored products or beehives, including *Plodia, Ephestia*, and *Galleria. Cactoblastis cactorum* is both a biological control agent and invasive species (Zimmerman et al. 2000).

All of the five subfamilies of Pyralidae are present in NA, and they have been stable in recent years with respect to contents and diagnostics. The most recent relevant references for the Chrysauginae are Cashatt (1968, 1984), Solis et al. (in Heppner 1995a), and Solis et al. (2013); for the Galleriinae, Whalley (1964), Munroe & Solis (1999) and Solis & Metz (2008). Horak (2003) synonymized Peoriini with Anerastiini and placed it as a tribe in Phycitinae. Most of the Phycitinae has been treated in the MONA series (Neunzig 1986, 1990, 1997, 2003), but that treatment is still incomplete; Heinrich (1956) provides valuable additional information and covers some additional genera; other important works are Shaffer (1968) and Whalley (1970). Important works on the Epipaschiinae are Solis & Mitter (1992), Solis (1992, 1993), and Solis (in Heppner 1995a); and for the Pyralinae, Solis & Mitter (1992), Shaffer & Solis (in Heppner 1995a), Solis & Shaffer (1999), and Leraut (2006). Scholtens & Solis (2015) updated the NA checklist. Nuss et al. (2022) have developed and maintain the online GlobIZ website compiling taxonomic information about global species in the Pyraloidea.

The Pyralidae is a diverse group throughout the world including about 5,900 species in 1,077 genera (Nuss et al. 2022). This list contains 681 species of Pyralidae from NA. Perhaps 1 to 2% of the NA fauna still awaits discovery and/or description. There are certainly more undescribed species in the western part of the region than in the eastern part.

Subfamily CHRYSAUGINAE Lederer, 1863

ID INFO: Cashatt (1968).

Genus CAPHYS Walker, 1863

ID INFO: Munroe (1970).

EUEXIPPE Ragonot, 1891
UGRA Walker, 1863

80a0001 C. arizonensis Munroe, 1970 (Caphys) 5537

Genus PARACHMA Walker, [1866]

ARTOPSIS Dyar, 1908
PERSEIS Walker, [1866]
PERSEISTIS Strand, 1921
ZAZACA Walker, [1866]

80a0002 P. ochracealis Walker, [1866] (Parachma) 5538
auratalis (Walker, 1866) (Zazaca)
borregalis (Dyar, 1908) (Artopsis) *[5539]*
culiculalis (Hulst, 1886) (Asopia)
nua (Dyar, 1914) (Artopsis)

Genus BASACALLIS Cashatt, 1984

80a0003 B. tarachodes (Dyar, 1914) (Parachma) 5540

Genus ACALLIS Ragonot, 1891
POLLOCCIA Dyar, 1910

80a0004 A. griphalis (Hulst, 1886) (Aglossa) emend. 5541
NOTE: The spelling correction at the end of the original publication has been overlooked for more than a century, until rediscovered recently by SRN.
angustipennis (Warren, 1891) (Ugra)
centralis Dyar, 1910 (Acallis) *[5542]*
fernaldi Ragonot, 1891 (Acallis)
gripalis; (Hulst, 1886) (Aglossa) orig. missp.
80a0005 A. alticolalis (Dyar, 1910) (Polloccia) 5543

Genus ZABOBA Dyar, 1914
ID INFO: Munroe (1970).

80a0006 Z. mitchelli Dyar, 1914 (Zaboba) 5544
80a0007 Z. unicoloralis Munroe, 1970 (Zaboba) 5545

Genus ANEMOSELLA Dyar, 1914
NOTE: *Balidarcha* appears first in Dyar's publication, but all subsequent authors have used *Anemosella* as the valid genus.
BALIDARCHA Dyar, 1914

80a0008 A. nevalis (Barnes & Benjamin, 1925) (Lepidomys) 5546
80a0009 A. obliquata (Edwards, 1886) (Earias) 5547
albistrigalis (Barnes & McDunnough, 1913) (Chalinitis)
80a0010 A. basalis Dyar, 1914 (Anemosella) [NEW]
polingalis Barnes & Benjamin, 1926 (Anemosella) *[5548]*
80a0011 A. viridalis (Barnes & McDunnough, 1912) (Chalinitis) 5549
cuis (Dyar, 1914) (Balidarcha)

Genus LEPIDOMYS Guenée, 1852
CHALINITIS Ragonot, 1891

80a0012 L. irrenosa Guenée, 1852 (Lepidomys) 5550
olealis (Ragonot, 1891) (Chalinitis)

Genus EPITAMYRA Ragonot, 1891

80a0013 E. albomaculalis (Möschler, 1890) (Tamyra) N/I [NEW]

Genus PARAGALASA Cashatt, 2013

80a0014 P. exospinalis Cashatt, 2013 (Paragalasa) [NEW]
NOTE: This name was proposed in Cashatt (1968 unpublished); formally described in Solis et al. (2013).

Genus NEGALASA Barnes & McDunnough, 1913

80a0015 N. fumalis Barnes & McDunnough, 1913 (Negalasa) 5551
80a0016 N. rubralis Barnes & McDunnough, 1913 (Negalasa) [NEW]

Genus GALASA Walker, 1886
CORDYLOPEZA Zeller, 1873

80a0017 G. nigrinodis (Zeller, 1873) (Cordylopeza) 5552
palmipes Grote & Robinson, 1891 (Galasa)
rubrana Fitch, 1891 (Galasa)
80a0018 G. nigripunctalis (Barnes & McDunnough, 1913) (Cordylopeza) 5553
fulvusana Haimbach, 1915 (Galasa)

Genus PENTHESILEA Ragonot, 1891

80a0019 P. difficilis (Felder, Felder & Rogenhofer, 1875) (Amblyura) [NEW]
leucogramma (Hampson, 1904) (Tetraschistis) *[5554]*
80a0020 P. sacculalis Ragonot, 1891 (Penthesilea) 5555
ssp. a. sacculalis Ragonot, 1891 (Penthesilea)
ssp. b. baboquivariensis Cashatt, 2013 (Penthesilea)

Genus TOSALE Walker, 1863
CALLOCERA Grote, 1875
FABATANA Walker, 1866
RESTIDIA Dyar, 1914
SIPAROCERA Grote, 1875
SIPAROCERA Robinson, 1876

80a0021 T. oviplagalis (Walker, 1866) (Fabatana) 5556
anthoecioides (Grote & Robinson, 1867) (Asopia)
nobilis (Grote, 1875) (Siparocera)
nobilis (Robinson, 1876) (Siparocera)
80a0022 T. aucta Hampson, 1897 (Tosale) 5558
80a0023 T. similalis Barnes & Benjamin, 1924 (Tosale) 5557

Genus SALOBRENA Walker, 1863
BALLONICHA Möschler, 1886
OECTOPERIA Zeller, 1876
TEUCRONOMA Meyrick, 1936

80a0024 S. sincera (Zeller, 1876) (Oectoperia) 5559
80a0025 S. recurvata Möschler, 1886 (Salobrena) [NEW]
rubiginea (Hampson, 1897) (Abaera) *[5560]*
80a0026 S. vacuana (Walker, 1863) (Rucuma) [NEW]
birectalis (Hampson, 1897) (Epitamyra) *[5561]*

Genus SATOLE Dyar, 1908

80a0027 S. ligniperdalis Dyar, 1908 (Satole) 5562

Genus CLYDONOPTERON Riley, 1880

80a0028 C. sacculana (Bosc, [1800]) (Pyralis) [NEW]
tecomae Riley, 1880 (Clydonopteron) *[5563]*

Genus BONCHIS Walker, 1862
ETHNISTIS Lederer, 1863
GAZACA Walker, 1866
VURNA Walker, 1866
ZARANIA Walker, 1866

80a0029 B. munitalis (Lederer, 1863) (Ethnistis) 5564
cossalis (Walker, 1866) (Zarania)
dirutalis (Walker, 1866) (Gazaca)
instructalis (Walker, 1866) (Vurna)

Genus STREPTOPALPIA Hampson, 1895

80a0030 S. minusculalis (Möschler, 1890) (Tamyra) 5565
deera Druce, 1895 (Streptopalpia)
ustalis Hampson, 1895 (Streptopalpia)

Genus ARTA Grote, 1875
XANTIPPIDES Dyar, 1908

80a0031 A. statalis Grote, 1875 (Arta) 5566
80a0032 A. epicoenalis Ragonot, 1891 (Arta) 5567
beatifica (Dyar, 1921) (Xantippe) *[5569]*
descansalis (Dyar, 1908) (Xantippides)
80a0033 A. olivalis Grote, 1878 (Arta) 5568
80a0034 A. brevivalvalis Cashatt, 2013 (Arta) [NEW]
NOTE: This name was proposed in Cashatt (1968 unpublished); formally described in Solis et al. (2013).

Genus CONDYLOLOMIA Grote, 1873

80a0035 C. participialis Grote, 1873 (Condylolomia) [NEW]
participalis; Grote, 1873 (Condylolomia) missp. *[5571]*

Genus BLEPHAROCERUS Blanchard, 1852 (excl.)

80a0036E B. rosellus Blanchard, 1852 (Blepharocerus) EXCL. 5572
NOTE: Removed from the NA list by Scholtens & Solis (2015); it was erroneously included by Munroe (in Hodges et al. 1983).
80a0037E B. ignitalis Hampson, 1906 (Blepharocerus) EXCL. 5573
NOTE: Removed from the NA list by Scholtens & Solis (2015); it was erroneously included by Munroe (in Hodges et al. 1983).

Genus HELIADES Ragonot, 1891

80a0038 H. mulleolella (Hulst, 1887) (Pempelia) 5574
uranides (Dyar, 1921) (Xantippe) *[5570]*
80a0039 H. lindae Cashatt, 2013 (Heliades) [NEW]
NOTE: This name was proposed in Cashatt (1968 unpublished); formally described in Solis et al. (2013).
80a0040 H. huachucalis (Haimbach, 1915) (Pyrausta) [NEW]
NOTE: New status by Cashatt (1968 unpublished), formally raised from synonymy by Solis et al. (2013).

Subfamily GALLERIINAE Zeller, 1848

Tribe GALLERIINI Zeller, 1848

Genus GALLERIA Fabricius, 1798
ADEONA Rafinesque, 1815
CERIOCLEPTA Sodoffsky, 1837
VINDANA Walker, 1866

80a0041 G. mellonella (Linnaeus, 1758) (Phalaena) I 5622
NOTE: Introduced from Eurasia.
austrinia Felder, Felder & Rogenhofer, 1875 (Galleria)
cereana (Blom, 1764) (Phalaena)
crombrugheella Dufrane, 1930 (Galleria)
obliquella (Walker, 1866) (Vindana)

Genus ACHROIA Hübner, 1819
MELIPHORA Guenée, 1845
VOBRIX Walker, 1864

80a0042 A. grisella (Fabricius, 1794) (Tinea) I 5623
NOTE: Introduced from Eurasia (Powell 1992).
aluearia (Fabricius, 1798) (Galleria)
anticella (Walker, 1863) (Tinea)
cinerana (Fabricius, 1781) (Pyralis)
cinereola (Hübner, 1802) (Bombyx)
ifranella Lucas, 1955 (Achroia)
major Dufrane, 1930 (Achroia)
obscurevittella Ragonot, 1901 (Achroia)

Genus TRACHYLEPIDIA Ragonot, 1887
AGANACTESIS Dyar, 1921

80a0043 T. fructicassiella Ragonot, 1887 (Trachylepidia) I 5624
NOTE: This species is introduced from South Asia (contributed by JDY).
indecora (Dyar, 1921) (Aganactesis)

Tribe MEGARTHRIDIINI Whalley, 1964

Genus OMPHALOCERA Lederer, 1863

80a0044 O. cariosa Lederer, 1863 (Omphalocera) 5625
dentosa Grote, 1882 (Omphalocera)
80a0045 O. occidentalis Barnes & Benjamin, 1924 (Omphalocera) 5626
80a0046 O. munroei Martin, 1956 (Omphalocera) 5627

Genus THYRIDOPYRALIS Dyar, 1901

80a0047 T. gallaerandialis Dyar, 1901 (Thyridopyralis) 5628

Genus STENOPASCHIA Hampson, 1906
NOTE: Transferred to Megarthridiini because of the presence of ocelli.
STENOPASCHIA Dyar, 1914
TAPINOLOPHA Dyar, 1918

80a0048 S. trichopteris Dyar, 1914 (Stenopaschia) [NEW]
variegata (Dyar, 1918) (Tapinolopha)

Tribe TIRATHABINI Whalley, 1964

Genus APHOMIA Hübner, 1825
ID INFO: Solis & Metz (2008).
ARENIPSES Hampson, 1901
CORCYRA Ragonot, 1885
ILITHYIA Berthold, in: Latreille, 1827
MELIA Curtis, 1828
MELISSOBLAPTES Zeller, 1839
PARALIPSA Butler, 1879
PARALISPA Rebel, in: Spuler, 1910
TINEOPSIS Dyar, 1913

80a0049 A. sociella (Linnaeus, 1758) (Phalaena) I 5629
NOTE: Introduced from Europe (Solis & Metz 2008).
asiatica Caradja, 1916 (Aphomia)
colonella (Linnaeus, 1758) (Phalaena)
eritrella Della Beffa, 1941 (Aphomia)
grisea Turati, 1913 (Aphomia)
lanceolata Dufrane, 1930 (Aphomia)
minor Dufrane, 1930 (Aphomia)
pedemontella Della Beffa, 1941 (Aphomia)
rufinella Krulikovsky, 1909 (Aphomia)
tribunella ([Denis & Schiffermüller], 1775) (Tinea)
virescens Skala, 1929 (Aphomia)
80a0050 A. terrenella Zeller, 1848 (Aphomia) 5630
decorella (Hulst, 1892) (Paralipsa) *[5633]*
furellus (Zeller, 1873) (Melissoblaptes)
80a0051 A. fulminalis (Zeller, 1872) (Melissoblaptes) [NEW]
NOTE: This species was described from TX, but was overlooked by Munroe (in Hodges et al. 1983).
80a0052 A. gularis (Zeller, 1877) (Melissoblaptes) I 5632
NOTE: Introduced from Asia, first intercepted in 1919 and established some time later (Solis & Metz 2008).
modesta (Butler, 1879) (Paralipsa)
tenebrosus (Butler, 1879) (Melissoblaptes)
80a0053 A. cephalonica (Stainton, 1866) (Melissoblaptes) I 5634
NOTE: Introduced from the West Indies.
lineata (Legrand, 1966) (Anerastia)
oeconomellus (Mann, 1872) (Melissoblaptes)
theobromae (Dyar, 1913) (Tineopsis)
translineella (Hampson & Joannis, 1901) (Corcyra)
a0054E A. fuscolimbella (Ragonot, 1887) (Melissoblaptes) EXCL. 5631
NOTE: NA origin of type material is probably incorrect (Solis & Metz 2008).

Genus EPIMORIUS Zeller, 1877
ID INFO: Ferguson (1991a).
ATHALIPTIS Schaus, 1913

80a0055 E. testaceellus Ragonot, 1887 (Epimorius) [NEW]

Tribe CACOTHERAPIINI Munroe, 1995

Genus CACOTHERAPIA Dyar, 1904
MACROTHECA Ragonot, 1891

80a0056 C. interalbicalis (Ragonot, 1891) (Macrotheca) 5635
vulnifera (Dyar, 1917) (Macrotheca)
80a0057 C. bilinealis (Barnes & McDunnough, 1918) (Macrotheca) 5636
80a0058 C. angulalis (Barnes & McDunnough, 1918) (Macrotheca) 5637
80a0059 C. unicoloralis (Barnes & McDunnough, 1913) (Macrotheca) 5638
80a0060 C. unipuncta (Dyar, 1913) (Macrotheca) 5639
80a0061 C. ponda Dyar, 1907 (Cacotherapia) 5640
80a0062 C. nigrocinereella (Hulst, 1900) (Aurora) 5641
80a0063 C. flexilinealis Dyar, 1905 (Cacotherapia) 5642
80a0064 C. leucocope (Dyar, 1917) (Macrotheca) 5643
80a0065 C. lecerfialis (Barnes & Benjamin, 1925) (Macrotheca) 5644

Genus ALPHEIAS Ragonot, 1891
AMESTRIA Ragonot, 1891

80a0066 A. vicarilis Dyar, 1913 (Alpheias) 5645
80a0067 A. transferens Dyar, 1917 (Alpheias) [NEW]
transferrens; Munroe, 1983 (Alpheias) missp. *[5646]*
80a0068 A. querula Dyar, 1913 (Alpheias) 5647
80a0069 A. oculiferalis (Ragonot, 1891) (Amestria) 5648

Genus ALPHEIOIDES Barnes & McDunnough, 1912

80a0070 A. parvulalis Barnes & McDunnough, 1912 (Alpheioides) 5649

Genus DECATURIA Barnes & McDunnough, 1912

80a0071 D. pectinalis Barnes & McDunnough, 1912 (Decaturia) 5650

Subfamily PHYCITINAE Zeller, 1839

ID INFO (partial): Heinrich (1956).

Tribe CRYPTOBLABINI Roesler, 1968 (excl.)

ID INFO: Neunzig (1986).

Genus CRYPTOBLABES Zeller, 1848 (excl.)

80a0072E C. gnidiella (Millière, 1864) (Ephestia) EXCL. [NEW]
NOTE: This species is not yet known to occur in NA, but it is associated with fruits and may get introduced; it was included in Neunzig (1986).

Tribe PHYCITINI Zeller, 1839

Genus ACROBASIS Zeller, 1839
ID INFO: Neunzig (1986).

ACROCAULA Hulst, 1900
CATACROBASIS Gozmány, 1958
CONOBATHRA Meyrick, 1886
CYPHITA Roesler, 1971
CYPRUSIA Amsel, 1958
HYLOPYLORA Meyrick, 1933
MINEOLA Hulst, 1890
NUMONIA Ragonot, 1893
RHODOPHAEOPSIS Amsel, 1955
SENECA Hulst, 1890
TRACHYCERA Ragonot, 1893

Acrobasis vaccinii group Neunzig, 1986

80a0073 A. vaccinii Riley, 1884 (Acrobasis) 5653
80a0074 A. amplexella Ragonot, 1887 (Acrobasis) 5654

Acrobasis indigenella group Neunzig, 1986

80a0075 A. indigenella (Zeller, 1848) (Myelois) 5651
grossbecki (Barnes & McDunnough, 1917) (Mineola) *[5652]*
nebulella (Riley, 1872) (Phycita)
nebulo (Walsh, 1860) (Phycita)
zelatella (Hulst, 1887) (Myelois)

Acrobasis tricolorella group Neunzig, 1986

80a0076 A. tricolorella Grote, 1878 (Acrobasis) 5655
scitulella (Hulst, 1900) (Mineola)

Acrobasis comptella group Neunzig, 1986

80a0077 A. comptella Ragonot, 1887 (Acrobasis) 5656
fria (Opler, 1977) (Rhodophaea) *[5699]*
kofa (Opler, 1977) (Rhodophaea) *[5697]*
neva (Opler, 1977) (Rhodophaea) *[5700]*

Acrobasis minimella group Neunzig, 1986

80a0078 A. minimella Ragonot, 1889 (Acrobasis) 5657
nigrosignella Hulst, 1890 (Acrobasis)
80a0079 A. blanchardorum Neunzig, 1973 (Acrobasis) 5694

Acrobasis caryae group Neunzig, 1986

80a0080 A. caryae Grote, 1881 (Acrobasis) 5664
80a0081 A. elyi Neunzig, 1970 (Acrobasis) 5666
80a0082 A. texana Neunzig, 1986 (Acrobasis) [NEW]
80a0083 A. evanescentella Dyar, 1908 (Acrobasis) 5668
80a0084 A. nuxvorella Neunzig, 1970 (Acrobasis) 5667
80a0085 A. juglanivorella Neunzig, 1986 (Acrobasis) [NEW]
80a0086 A. caulivorella Neunzig, 1986 (Acrobasis) [NEW]

Acrobasis stigmella group Neunzig, 1986

80a0087 A. stigmella Dyar, 1908 (Acrobasis) 5669
80a0088 A. aurorella Ely, 1910 (Acrobasis) 5670
80a0089 A. exsulella (Zeller, 1848) (Myelois) 5672
peplifera Dyar, 1925 (Acrobasis) *[5671]*
septentrionella Dyar, 1925 (Acrobasis)
80a0090 A. demotella Grote, 1881 (Acrobasis) 5674
80a0091 A. angusella Grote, 1880 (Acrobasis) 5673
eliella Dyar, 1908 (Acrobasis)
80a0092 A. latifasciella Dyar, 1908 (Acrobasis) 5675

Acrobasis palliolella group Neunzig, 1986

80a0093 A. palliolella Ragonot, 1887 (Acrobasis) 5659
albocapitella Hulst, 1888 (Acrobasis)
feltella Dyar, 1910 (Acrobasis) *[5658]*
80a0094 A. juglandis (LeBaron, 1872) (Phycita) 5661
80a0095 A. caryalbella Ely, 1913 (Acrobasis) 5660
80a0096 A. tumidulella (Ragonot, 1887) (Cateremna) 5693
NOTE: Synonymized with *A. caryivorella* Ragonot by Neunzig (1986), but reinstated as a valid species by Leraut (2005).
kearfottella Dyar, 1905 (Acrobasis) *[5663]*

Acrobasis caryivorella group Neunzig, 1986

80a0097 A. caryivorella Ragonot, 1887 (Acrobasis) 5686
comacornella (Hulst, 1900) (Acrocaula) *[5687]*

Acrobasis cunulae group Neunzig, 1986

80a0098 A. cunulae Dyar & Heinrich, 1929 (Acrobasis) 5685
80a0099 A. comptoniella Hulst, 1890 (Acrobasis) 5691
80a0100 A. cirroferella Hulst, 1892 (Acrobasis) 5684
myricella Barnes & McDunnough, 1917 (Acrobasis) *[5692]*
80a0101 A. rubrifasciella Packard, 1873 (Acrobasis) 5690
alnella McDunnough, [1923] (Acrobasis)
dyarella Ely, 1910 (Acrobasis) *[5679]*
80a0102 A. irrubriella Ely, 1908 (Acrobasis) 5676
80a0103 A. betulella Hulst, 1890 (Acrobasis) 5688
hebescella Hulst, 1890 (Acrobasis) *[5683]*
80a0104 A. betulivorella Neunzig, 1975 (Acrobasis) 5689
80a0105 A. carpinivorella Neunzig, 1970 (Acrobasis) 5665
80a0106 A. sylviella Ely, 1908 (Acrobasis) 5662
80a0107 A. kylesi Neunzig, 1986 (Acrobasis) [NEW]
80a0108 A. ostryella Ely, 1913 (Acrobasis) 5680
80a0109 A. normella Dyar, 1908 (Acrobasis) 5677
malipennella Dyar, 1908 (Acrobasis) *[5678]*
secundella Ely, 1913 (Acrobasis) *[5681]*
80a0110 A. coryliella Dyar, 1908 (Acrobasis) 5682

[Acrobasis "Trachycera" group]
NOTE: Trachycera was synonymized with Acrobasis by Leraut (2005).

80a0111 A. suavella (Zincken, 1818) (Phycis) I 5702
NOTE: Introduced from Europe to BC early in the 1900s (Neunzig 1986).
porphyrea (Stephens, 1834) (Phycita)
supposita (Heinrich, 1940) (Mineola)
80a0112 A. caliginella (Hulst, 1887) (Nephopteryx) 5695
aurata; (Munroe, 1983) (Rhodophaea) missp. *[5698]*
caliginoidella (Dyar, 1905) (Myelois)
cruza (Opler, 1977) (Rhodophaea) *[5696]*
durata (Opler, 1977) (Rhodophaea)
yuba (Opler, 1977) (Rhodophaea) *[5701]*
80a0113 A. pallicornella (Ragonot, 1887) (Rhodophaea) 5703

Genus ANABASIS Heinrich, 1956
ID INFO: Neunzig (1986).

80a0114 A. ochrodesma (Zeller, 1881) (Myelois) 5704
crassisquamella (Hampson, 1901) (Acrobasis)

Genus HYPARGYRIA Ragonot, 1888
ID INFO: Neunzig (1986).

80a0115 H. slossonella (Hulst, 1900) (Salebria) 5711
tenuella (Barnes & McDunnough, 1913) (Acrobasis)

Genus ADANARSA Heinrich, 1956
ID INFO: Neunzig (1990).

80a0116 A. intransitella (Dyar, 1905) (Rhodophaea) 5708

Genus CUNIBERTA Heinrich, 1956
ID INFO: Neunzig (1990).

80a0117 C. subtinctella (Ragonot, 1887) (Nephopteryx) 5707

Genus CROCIDOMERA Zeller, 1848
ID INFO: Neunzig (1990).

80a0118 C. imitata Neunzig, 1990 (Crocidomera) [NEW]
NOTE: This species was reported in NA by Heinrich (1956) under the name *C. turbidella*, a Neotropical species.
turbidella of authors; not Zeller, 1848 (Crocidomera) misappl. *[5706]*

Genus BERTELIA Barnes & McDunnough, 1913
ID INFO: Neunzig (1990).

80a0119 B. grisella Barnes & McDunnough, 1913 (Bertelia) 5709
80a0120 B. dupla Blanchard, 1976 (Bertelia) 5710

Genus HYPSIPYLA Ragonot, 1888
ID INFO: Neunzig (1990).

80a0121 H. grandella (Zeller, 1848) (Nephopteryx) 5705
cnabella Dyar, 1914 (Hypsipyla)

Genus ANYPSIPYLA Dyar, 1914
ID INFO: Neunzig (1990).

80a0122 A. univitella Dyar, 1914 (Anypsipyla) [NEW]

Genus CHARARICA Heinrich, 1956
ID INFO: Neunzig (1990).

80a0123 C. annuliferella (Dyar, 1905) (Myelois) 5712
80a0124 C. hystriculella (Hulst, 1887) (Acrobasis) 5713
80a0125 C. bicolorella (Barnes & McDunnough, 1917) (Rhodophaea) 5714

Genus MYELOPSIS Heinrich, 1956
ID INFO: Neunzig (1990).
NOTE: We follow the most recent NA treatment of the genus by Neunzig (1990), maintaining *Myelopsis* separate from *Episcythrastis* Meyrick, 1937.

80a0126 M. minutulella (Hulst, 1887) (Dioryctria) emend. [NEW]
NOTE: This species was misspelled as "*minutularia*" in the original description, and that name has been used historically in many checklists. However, the spelling was corrected by Hulst in an addendum included with the original paper, so the corrected name *minutulella* is considered valid according to the ICZN.
coniella (Ragonot, 1887) (Myelois) *[5716]*
minutularia; (Hulst, 1887) (Dioryctria) orig. missp. *[5719]*
nefas (Dyar, 1922) (Rampylla)
80a0127 M. immundella (Hulst, 1890) (Myelois) 5717
80a0128 M. subtetricella (Ragonot, 1889) (Myelois) 5718
obnupsella (Hulst, 1890) (Myelois)
zonulella (Ragonot, 1889) (Myelois)
80a0129 M. alatella (Hulst, 1887) (Acrobasis) 5720
fragilella (Dyar, 1904) (Myelois)
piazzella (Dyar, 1925) (Myelois)
rectistrigella (Ragonot, 1887) (Myelois)

Genus MYELOPSOIDES Neunzig, 1998
ID INFO: Neunzig (1998).

80a0130 M. venustus Neunzig, 1998 (Myelopsoides) [NEW]

Genus SELGA Heinrich, 1956
ID INFO: Neunzig (1990).

80a0131 S. arizonella (Hulst, [1901] 1900) (Heterographis) 5994
80a0132 S. californica Neunzig, 1990 (Selga) [NEW]

Genus PSEUDOCABIMA Heinrich, 1956
ID INFO: Neunzig (1990).

80a0133 P. arizonensis Heinrich, 1956 (Pseudocabima) [NEW]
NOTE: This species was overlooked by Munroe (in Hodges et al. 1983).

Genus APOMYELOIS Heinrich, 1956
ID INFO: Neunzig (1990).

80a0134 A. bistriatella (Hulst, 1887) (Dioryctria) 5721
bilineatella; (Hulst, 1890) (Myelois) missp.
bilineella (Ragonot, 1887) (Myelois)
neophanes (Durrant, 1915) (Myelois)
subcognata (Ragonot, 1887) (Myelois)

Genus ECTOMYELOIS Heinrich, 1956
NOTE: Leraut (2002) synonymized *Ectomyelois* with *Apomyelois*, with a discussion of the characters that the genera share, and Scholtens & Solis (2015) followed that arrangement. However, Ren & Yang (2016) separated them again, citing the FW Rs2 vein and the location of the ductus seminalis, and we follow that more recent arrangement pending a more thorough cladistic analysis.

80a0135 E. ceratoniae (Zeller, 1839) (Myelois) I 5723
NOTE: Introduced from Africa (Warner et al. 1990).
ceratoniella (Fischer von Röslerstamm, 1839) (Phycis)
dentilinella (Hampson, 1896) (Phycita)
durandi (Lucas, 1950) (Laodamia)
oporedestella (Dyar, 1911) (Myelois)
phoenicis (Durrant, 1915) (Myelois)
pryerella (Vaughan, 1870) (Trachonitis)
psarella (Hampson, 1903) (Hypsipyla)
rivulalis (Warren & Rothschild, 1905) (Heterographis)
tuerkheimiella (Sorhagen, 1881) (Myelois)
zellerella (Sorhagen, 1881) (Euzophera)
80a0136E E. decolor (Zeller, 1881) (Myelois) EXCL. 5722
NOTE: Excluded from the NA fauna by Neunzig (1990) and Scholtens & Solis (2015).

Genus AMYELOIS Amsel, 1955
ID INFO: Neunzig (1990).
PARAMYELOIS Heinrich, 1956

80a0137 A. transitella (Walker, 1863) (Nephopteryx) 5724
cassiae (Dyar, 1917) (Emporia)
duplipunctella (Ragonot, 1887) (Myelois)
notatalis (Walker, 1863) (Nephopteryx)
solitella (Zeller, 1881) (Myelois)
venipars (Dyar, 1914) (Myelois)

Genus EUZOPHERA Zeller, 1867
ID INFO: Neunzig (1990).
AHWAZIA Amsel, 1949
CYMBALORISSA Gozmány, 1958
EUZOPHORA; [various, no date] missp.
LONGIGNATHIA Roesler, 1965
MELIA Heinemann, 1865
PISTOGENES Meyrick, 1937
QUADREMPISTA Roesler, 1973
STEOPTYCHA Heinemann, 1865

80a0138 E. semifuneralis (Walker, 1863) (Nephopteryx) 5995
pallulella (Hulst, 1887) (Stenoptycha)
80a0139 E. aglaeella Ragonot, 1887 (Euzophera) [NEW]
80a0140 E. habrella Neunzig, 1990 (Euzophera) [NEW]
80a0141 E. vinnulella Neunzig, 1990 (Euzophera) [NEW]
80a0142 E. magnolialis Capps, 1964 (Euzophora [sic]) 5996
80a0143 E. ostricolorella Hulst, 1890 (Euzophera) 5997
80a0144 E. nigricantella Ragonot, 1887 (Euzophera) 5998
griselda Dyar, 1913 (Euzophera)

Genus EULOGIA Heinrich, 1956
ID INFO: Neunzig (1990).

80a0145 E. ochrifrontella (Zeller, 1876) (Ephestia) 5999
ferruginella (Ragonot, 1887) (Euzophera)

Genus EPHESTIODES Ragonot, 1887
ID INFO: Neunzig (1990).

80a0146 E. gilvescentella Ragonot, 1887 (Ephestiodes) 6000
nigrella Hulst, [1901] 1900 (Ephestiodes)
80a0147 E. erasa Heinrich, 1956 (Ephestiodes) 6004
80a0148 E. infimella Ragonot, 1887 (Ephestiodes) 6001
80a0149 E. monticolus Neunzig, 1990 (Ephestiodes) [NEW]
80a0150 E. erythrella Ragonot, 1887 (Ephestiodes) 6002
benjaminella Dyar, 1904 (Ephestiodes)
coloradella (Hulst, 1900) (Eurythmia)
80a0151 E. mignonella Dyar, 1908 (Ephestiodes) 6003
80a0152 E. griseus Neunzig, 1990 (Ephestiodes) [NEW]

Genus AUSTRALEPHESTIODES Neunzig, 1990
ID INFO: Neunzig (1990).

80a0153 A. stictella (Hampson, 1901) (Unadilla) [NEW]
granulella (Hampson, 1901) (Ephestiodes)
uniformella (Hampson, 1901) (Ephestiodes)

Genus MOODNODES Neunzig, 1990
ID INFO: Neunzig (1990).

80a0154 M. plorella (Dyar, 1914) (Ephestiodes) [NEW]
vestilla (Dyar, 1914) (Eurythmia)

Genus MOODNA Hulst, 1890
ID INFO: Neunzig (1990).

80a0155 M. ostrinella (Clemens, 1860) (Ephestia) 6005
obtusangulella (Ragonot, 1887) (Hornigia)
pelviculella Hulst, 1890 (Moodna)
80a0156 M. pallidostrinella Neunzig, 1990 (Moodna) [NEW]
80a0157 M. bisinuella Hampson, 1901 (Moodna) 6006

Genus CAUDELLIA Dyar, 1904
ID INFO: Neunzig (1990).

80a0158 C. apyrella Dyar, 1904 (Caudellia) 6012
albovittella Dyar, 1904 (Caudellia) *[6013]*
80a0159 C. floridensis Neunzig, 1990 (Caudellia) [NEW]
80a0160 C. nigrella (Hulst, 1890) (Ephestia) 6014
arizonella (Walter, 1928) (Ephestia)

Genus VOLATICA Heinrich, 1956
ID INFO: Neunzig (1990).

80a0161 V. gallivorella Neunzig, 1990 (Volatica) [NEW]
NOTE: Neunzig (1976) used the name *Vitula lugubrella* (Ragonot) for what would later be described as this species. *Hornigia lugubrella* is a synonym of the extralimital species *Vitula biviella* (Zeller). The TL of *lugubrella* was erroneously given as CA in the original description.

Genus VITULA Ragonot, 1887
ID INFO: Neunzig (1990).
HORNIGIA Ragonot, 1887
MANHATTA Hulst, 1890

80a0162 V. edmandsii (Packard, 1866) (Nephopteryx) 6007
dentosella Ragonot, 1887 (Vitula)
edmandsae; Heinrich, 1956 (Vitula) emend.
80a0163E V. biviella (Zeller, 1848) (Ephestia) EXCL. [NEW]
NOTE: The TL of the synonym *lugubrella* was erroneously listed as CA, according to Neunzig (1990). *V. biviella* is otherwise known only from Europe. Neunzig (1976a) used the name *lugubrella* for what would later be described as *Volatica gallivorella*.
lugubrella (Ragonot, 1887) (Hornigia) (excl.) *[6008]*
80a0164 V. serratilineella Ragonot, 1887 (Vitula) [NEW]
bombylicolella (Amsel, 1955) (Moodna)
80a0165 V. pinei Heinrich, 1956 (Vitula) 6009
80a0166 V. aegerella Neunzig, 1990 (Vitula) [NEW]
80a0167 V. insula Neunzig, 1990 (Vitula) [NEW]
80a0168 V. coconinoana Neunzig, 1990 (Vitula) [NEW]
80a0169 V. broweri (Heinrich, 1956) (Manhatta) 6011
80a0170 V. setonella (McDunnough, 1927) (Moodna) 6010

Genus SOSIPATRA Heinrich, 1956
ID INFO: Neunzig (1990).

80a0171 S. rileyella (Ragonot, 1887) (Ephestia) 6015
80a0172 S. anthophila (Dyar, 1925) (Eurythmia) 6016
80a0173 S. proximanthophila Neunzig, 1990 (Sosipatra) [NEW]
80a0174 S. thurberiae (Dyar, 1917) (Eurythmia) 6017
80a0175 S. knudsoni Neunzig, 1990 (Sosipatra) [NEW]
80a0176 S. nonparilella (Dyar, 1904) (Ephestia) 6018

Genus HEINRICHIESSA Neunzig, 1990
ID INFO: Neunzig (1990).

80a0177 H. sanpetella Neunzig, 1990 (Heinrichiessa) [NEW]

Genus RIBUA Heinrich, 1940
ID INFO: Neunzig (1990).

80a0178 R. droozi Neunzig, 1990 (Ribua) [NEW]
80a0179 R. innoxia Heinrich, 1940 (Ribua) [NEW]

Genus BETHULIA Ragonot, 1888
ID INFO: Neunzig & Solis (2006).

80a0180 B. championella Ragonot, 1888 (Bethulia) [NEW]

Genus PLODIA Guenée, 1845
ID INFO: Neunzig (1990).

80a0181 P. interpunctella (Hübner, [1810-1813]) (Tinea) C 6019
NOTE: This cosmopolitan pest species is thought to have originated in the New World (Neunzig 1990).
castaneella Reutti, 1898 (Plodia)
glycinivora (Matsumura, 1917) (Ephestia)
glycinivorella; (Matsumura, 1920) (Ephestia) emend.
interpunctalis (Hübner, [1825]) (Euclita)
latercula (Hampson, 1901) (Unadilla)
zeae (Fitch, 1856) (Tinea)

Genus EPHESTIA Guenée, 1845
ID INFO: Neunzig (1990).
ANAGASTA Heinrich, 1956
HYPHANTIDIUM Scott, 1859

80a0182 E. elutella (Hübner, [1796]) (Tinea) I 6021
NOTE: Introduced from the Old World tropics (Lafontaine & Troubridge 1998).
affusella (Ragonot, 1888) (Homoeosoma)
amarella Dyar, 1904 (Ephestia)
angusta (Haworth, 1811) (Phycis)
aquella ([Denis & Schiffermüller], 1775) (Tinea)
icosiella Ragonot, 1888 (Ephestia)
infumatella Ragonot, 1887 (Ephestia)
pterogrisella Roesler, 1965 (Ephestia)
roxburghii Gregson, 1873 (Ephestia)
rufa (Haworth, 1811) (Phycis)
semirufa (Haworth, 1811) (Phycis)
sericarium (Scott, 1859) (Hyphantidium)
uniformata Dufrane, 1942 (Ephestia)
80a0183 E. kuehniella Zeller, 1879 (Ephestia) C 6020
NOTE: This cosmopolitan pest species is thought to be native to southern USA (Neunzig 1990).
alba Roesler, 1966 (Ephestia)
fuscofasciella Ragonot, 1887 (Ephestia)
gitonella Druce, 1896 (Ephestia)
ischnomorpha (Meyrick, 1931) (Homoeosoma)
nigra Roesler, 1966 (Ephestia)
80a0184 E. columbiella Neunzig, 1990 (Ephestia) [NEW]

Genus UNCITRUNCATA Neunzig, 2000
ID INFO: Neunzig (2000).

80a0185 U. leuschneri Neunzig, 2000 (Uncitruncata) [NEW]

Genus CADRA Walker, 1864
ID INFO: Neunzig (1990).
XENEPHESTIA Gozmány, 1958

80a0186 C. cautella (Walker, 1863) (Pempelia) I 6022
NOTE: Introduced from tropical Asia (Lafontaine & Troubridge 1998).
defectella Walker, 1864 (Cadra)
desuetella (Walker, 1866) (Nephopteryx [sic])
formosella (Wileman & South, 1918) (Cryptoblabes)
irakella (Amsel, 1959) (Ephestia)
passulella (Barrett, 1875) (Ephestia)
pelopis (Turner, 1947) (Ephestia)
rotundatella (Turati, 1930) (Ephestia)
80a0187 C. figulilella (Gregson, 1871) (Ephestia) I 6023
NOTE: Introduced to CA from Eurasia (Heinrich 1956).
ernestinella (Turati, 1927) (Ephestia)
gypsella (Ragonot, 1887) (Ephestia)
halfaella Roesler, 1966 (Cadra)
milleri (Zeller, 1876) (Ephestia)
venosella (Turati, 1926) (Ephestia)

Genus BANDERA Ragonot, 1887
ID INFO: Shaffer (1968), Neunzig (1990).
NASUTES Hampson, 1930

80a0188 B. binotella (Zeller, 1872) (Anerastia) 6024
subluteella Ragonot, 1887 (Bandera)
80a0189 B. virginella Dyar, 1908 (Bandera) 6026
80a0190 B. cupidinella Hulst, 1888 (Bandera) 6025
conspersella (Ragonot, 1901) (Anerastia)
venata (Hampson, 1930) (Nasutes)

Genus WAKULLA Shaffer, 1968
ID INFO: Shaffer (1968), Neunzig (1990).

80a0191 W. carneella (Barnes & McDunnough, 1913) (Bandera) 6027

Genus TAMPA Ragonot, 1887
ID INFO: Shaffer (1968), Neunzig (1990).

80a0192 T. dimediatella Ragonot, 1887 (Tampa) 6028

Genus VARNERIA Dyar, 1904
ID INFO: Neunzig (1990).

80a0193 V. postremella Dyar, 1904 (Varneria) 6029
80a0194 V. atrifasciella Barnes & McDunnough, 1913 (Varneria) 6030

Genus EURYTHMIA Ragonot, 1887
ID INFO: Neunzig (1990).

80a0195 E. hospitella (Zeller, 1876) (Ephestia) 6031
80a0196 E. angulella Ely, 1910 (Eurythmia) 6032
diffusella Ely, 1910 (Eurythmia)
80a0197 E. furnella Ely, 1910 (Eurythmia) [NEW]
fumella; Heinrich, 1956 (Eurythmia) missp. *[6033]*
80a0198 E. spaldingella Dyar, 1905 (Eurythmia) [NEW]
80a0199 E. yavapaella Dyar, 1906 (Eurythmia) [NEW]

Genus ERELIEVA Heinrich, 1956
ID INFO: Neunzig (1990).

80a0200 E. quantulella (Hulst, 1887) (Pempelia) 6034
santiagella (Dyar, 1919) (Eurythmia)
80a0201 E. parvulella (Ely, 1910) (Eurythmia) 6035

Genus PIMA Hulst, 1888
ID INFO: Neunzig (2003).

80a0202 P. fosterella Hulst, 1888 (Pima) 5748
80a0203 P. boisduvaliella (Guenée, 1845) (Epischnia) H 5746
NOTE: BOLD records indicate that this species is Holarctic.
farrella (Curtis, 1850) (Anerastia)
lafauryella (Constant, 1865) (Myelois)
lefauryella; Munroe, 1983 (Pima) missp.
80a0204 P. albiplagiatella (Packard, 1873) (Myelois) 5747
80a0205 P. occidentalis Heinrich, 1956 (Pima) [NEW]
80a0206 P. fulvirugella (Ragonot, 1887) (Epischnia) 5751
vividella (McDunnough, 1935) (Epischnia) *[5749]*
80a0207 P. albocostalis (Hulst, 1886) (Ephestia) emend. 5750
NOTE: The corrected spelling at the end of the original publication has been overlooked for more than a century, until discovered recently by SRN.
albocostalialis; (Hulst, 1886) (Epischnia) orig. missp.
subcostella (Ragonot, 1887) (Epischnia)
80a0208 P. granitella (Ragonot, 1887) (Epischnia) 5752
piperella (Dyar, 1904) (Megasis)
80a0209 P. parkerella (Schaus, 1924) (Epischnia) 5753
80a0210 P. fergusoni Neunzig, 2003 (Pima) [NEW]

Genus INTERJECTIO Heinrich, 1956
ID INFO: Neunzig (2003).

80a0211 I. columbiella (McDunnough, 1935) (Ambesa) 5756
80a0212 I. denticulella (Ragonot, 1887) (Pristophora) 5755
ruderella (Ragonot, 1887) (Epischnia) *[5757]*
80a0213 I. niviella (Hulst, 1888) (Lipographis) 5758

Genus AMBESA Grote, 1880
ID INFO: Neunzig (2003).

80a0214 A. laetella Grote, 1880 (Ambesa) 5759
80a0215 A. walsinghami (Ragonot, 1887) (Pristophora) 5760
monodon Dyar, 1913 (Ambesa)
80a0216 A. mirabella Dyar, 1908 (Ambesa) [NEW]
80a0217 A. lallatalis (Hulst, 1886) (Nephopteryx) 5761
80a0218 A. dentifera Neunzig, 2003 (Ambesa) [NEW]

Genus CATASTIA Hübner, [1825]
ID INFO: Neunzig (2003).
DIOSIA Duponchel, 1832

80a0219 C. bistriatella (Hulst, 1895) (Pyla) 5762
80a0220 C. incorruscella (Hulst, 1895) (Pyla) 5763
80a0221 C. actualis (Hulst, 1886) (Nephopteryx) 5764
80a0222 C. subactualis Neunzig, 2003 (Catastia) [NEW]

Genus IMMYRLA Dyar, 1906
ID INFO: Neunzig (2003).

80a0223 I. nigrovittella Dyar, 1906 (Immyrla) 5766

Genus OREANA Hulst, 1888
ID INFO: Neunzig (2003).

80a0224 O. unicolorella (Hulst, 1887) (Dioryctria) 5767
leucophaeella (Hulst, 1892) (Myelois)

Genus OLYBRIA Heinrich, 1956
ID INFO: Neunzig (2003).

80a0225 O. aliculella (Hulst, 1887) (Myelois) 5768
oberthuriella (Ragonot, 1887) (Salebria)
80a0226 O. furciferella (Dyar, 1904) (Salebria) 5769

Genus SALEBRIACUS Heinrich, 1956
ID INFO: Neunzig (2003).

80a0227 S. odiosella (Hulst, 1887) (Nephopteryx) 5770
bakerella (Dyar, 1904) (Salebria)
yumaella (Dyar, 1905) (Salebria)

Genus SALEBRIARIA Heinrich, 1956
ID INFO: Neunzig (2003).

80a0228 S. ademptandella (Dyar, 1908) (Salebria) [NEW]
80a0229 S. turpidella (Ragonot, 1888) (Salebria) 5771
80a0230 S. nubiferella (Ragonot, 1887) (Salebria) 5772
80a0231 S. borealis Neunzig, 1988 (Salebriaria) [NEW]
80a0232 S. chisosensis Neunzig, 1988 (Salebriaria) [NEW]
80a0233 S. engeli (Dyar, 1906) (Salebria) 5773
80a0234 S. roseopunctella Neunzig, 2003 (Salebriaria) [NEW]
80a0235 S. fasciata Neunzig, 1988 (Salebriaria) [NEW]
80a0236 S. rufimaculatella Neunzig, 1988 (Salebriaria) [NEW]
80a0237 S. tenebrosella (Hulst, 1887) (Nephopteryx) 5775
heinrichalis (Dyar, 1917) (Salebria)
quercicolella (Ragonot, 1887) (Nephopteryx)
80a0238 S. equivoca Neunzig, 1988 (Salebriaria) [NEW]
80a0239 S. integra Neunzig, 1988 (Salebriaria) [NEW]
80a0240 S. maximella Neunzig, 1988 (Salebriaria) [NEW]
80a0241 S. simpliciella Neunzig, 1988 (Salebriaria) [NEW]
80a0242 S. carolynae Neunzig, 1988 (Salebriaria) [NEW]
80a0243 S. kanawha Neunzig, 2003 (Salebriaria) [NEW]
80a0244 S. squamopalpiella Neunzig, 1988 (Salebriaria) [NEW]
80a0245 S. floridana Neunzig, 2003 (Salebriaria) [NEW]
80a0246 S. pallidella Neunzig, 2003 (Salebriaria) [NEW]
80a0247 S. annulosella (Ragonot, 1887) (Nephopteryx) 5774
80a0248 S. robustella (Dyar, 1908) (Salebria) [NEW]
80a0249 S. bella Neunzig, 1988 (Salebriaria) [NEW]
80a0250 S. fergusonella (Blanchard & Knudson, 1983) (Psorosina) [NEW]
80a0251 S. grandidentalis Neunzig, 1988 (Salebriaria) [NEW]
80a0252 S. pumilella (Ragonot, 1887) (Salebria) 5776
georgiella (Hulst, 1895) (Salebria)

Genus PSOROSINA Dyar, 1904
ID INFO: Neunzig (2003).

80a0253 P. hammondi (Riley, 1872) (Pempelia) 5931
angulella Dyar, 1904 (Psorosina)

Genus QUASISALEBRIA Heinrich, 1956
ID INFO: Neunzig (2003).

80a0254 Q. admixta Heinrich, 1956 (Quasisalebria) 5779
80a0255 Q. fructetella (Hulst, 1892) (Myelois) 5777
rectistrigella (Dyar, 1908) (Salebria)
80a0256 Q. atratella (Blanchard & Knudson, 1985) (Salebriaria) [NEW]
80a0257 Q. occidentalis (Neunzig, 1988) (Salebriaria) [NEW]

Genus GLYPHOCYSTIS Blanchard, 1973
ID INFO: Neunzig (2003).

80a0258 G. viridivallis Blanchard, 1973 (Glyphocystis) 5765

Genus ORTHOLEPIS Ragonot, 1887
ID INFO: Neunzig (2003); also Heppner (2021a).
METRIOSTOLA Ragonot, 1893

80a0259 O. jugosella Ragonot, 1887 (Ortholepis) 5780
80a0260 O. rhodorella McDunnough, 1958 (Ortholepis) 5782
80a0261 O. pasadamia (Dyar, 1917) (Immyrla) 5783
80a0262 O. myricella McDunnough, 1958 (Ortholepis) 5781
80a0263 O. baloghi Neunzig, 2003 (Ortholepis) [NEW]

Genus POLOPEUSTIS Ragonot, 1893
ID INFO: Neunzig (2003).

80a0264 P. arctiella (Gibson, 1920) (Pyla) 5784

Genus GLYPTOCERA Ragonot, 1890
ID INFO: Neunzig (2003).

80a0265 G. consobrinella (Zeller, 1872) (Nephopteryx) 5745
busckella (Dyar, 1904) (Ambesa)

Genus MEROPTERA Grote, 1882
ID INFO: Neunzig (2003).
EMMERITA Hampson, 1930

80a0266 M. mirandella Ragonot, 1893 (Meroptera) 5785
80a0267 M. anaimella Blanchard & Knudson, 1985 (Meroptera) [NEW]
80a0268 M. nevadensis Neunzig, 2003 (Meroptera) [NEW]
80a0269 M. cviatella Dyar, 1905 (Meroptera) 5786
80a0270 M. pravella (Grote, 1878) (Pempelia) 5787
80a0271 M. abditiva Heinrich, 1956 (Meroptera) 5788

Genus SCIOTA Hulst, 1888
ID INFO: Neunzig (2003).
APODENTINODIA Roesler, 1969
CLASPEROPSIS Roesler, 1969
DENTICERA Amsel, 1961
NEPHOPTERIX Hübner, [1825]
NEPHOPTERYX; Zeller, 1839 emend.
PARANEPHOPTERIX Roesler, 1969
SCOTIA; Hannemann, 1964 missp.

80a0272 S. rubrisparsella (Ragonot, 1887) (Pristophora) 5804
croceella Hulst, 1888 (Sciota)
rufibasella (Ragonot, 1887) (Nephopteryx)
texanella (Hulst, 1900) (Psorosa)
80a0273 S. crassifasciella (Ragonot, 1887) (Nephopteryx) 5806
crataegella (Barnes & McDunnough, 1917) (Nephopteryx)
decipientella (Dyar, 1905) (Nephopteryx)
80a0274 S. gilvibasella (Hulst, 1890) (Nephopteryx) 5805
lacteella (Hulst, 1900) (Salebria)
80a0275 S. quasisubfuscella Neunzig, 2003 (Sciota) [NEW]
80a0276 S. basilaris (Zeller, 1872) (Nephopteryx) 5799
80a0277 S. tarmitalis (Hulst, 1886) (Pempelia) [NEW]
termitalis; (Munroe, 1983) (Nephopterix) missp. [5800]
80a0278 S. levigatella (Hulst, 1892) (Salebria) [NEW]
tarmitalis of authors; (not Hulst, 1886) (Pempelia) misid.
NOTE: This longstanding misidentification by Heinrich (1956) was corrected by Neunzig (2003).
80a0279 S. californiana Neunzig, 2003 (Sciota) [NEW]
80a0280 S. yuconella (Dyar, 1925) (Salebria) [NEW]
80a0281 S. bifasciella (Hulst, 1887) (Nephopteryx) 5801
nogalesella (Dyar, 1905) (Salebria)
80a0282 S. delassalis (Hulst, 1886) (Nephopteryx) 5790
pudibundella (Ragonot, 1893) (Salebria)
purpurella (Hulst, 1892) (Salebria)
80a0283 S. fraudifera (Heinrich, 1956) (Nephopteryx) [NEW]
80a0284 S. fernaldi (Ragonot, 1887) (Salebria) 5792
80a0285 S. dammersi (Heinrich, 1956) (Nephopteryx) 5793
80a0286 S. floridensis (Heinrich, 1956) (Nephopteryx) [NEW]
80a0287 S. rubescentella (Hulst, 1900) (Mineola) 5791
80a0288 S. vetustella (Dyar, 1904) (Salebria) 5794
80a0289 S. inconditella (Ragonot, 1893) (Salebria) 5795
80a0290 S. subcaesiella (Clemens, 1860) (Pempelia) 5796
contatella (Grote, 1880) (Pempelia)
80a0291 S. virgatella (Clemens, 1860) (Pempelia) 5797
quinquepunctella (Grote, 1880) (Pempelia)
80a0292 S. carneella (Hulst, 1887) (Nephopteryx) 5798
inquilinella (Ragonot, 1887) (Nephopteryx)
80a0293 S. celtidella (Hulst, 1890) (Salebria) 5803
80a0294 S. subfuscella (Ragonot, 1887) (Salebria) 5789
semiobscurella (Hulst, 1890) (Salebria)
80a0295 S. uvinella (Ragonot, 1887) (Meroptera) 5802
afflictella (Hulst, 1900) (Salebria)
liquidambarella (Dyar, 1904) (Meroptera)
80a0296E S. bisra (Dyar, 1919) (Nephopteryx) EXCL. 5807
NOTE: Neunzig (2003) did not consider this species to be part of the NA fauna.

Genus TLASCALA Hulst, 1890
ID INFO: Neunzig (2003).

80a0297 T. reductella (Walker, 1863) (Nephopteryx) 5808
gleditschiella (Fernald, 1881) (Pempelia)

Genus TULSA Heinrich, 1956
ID INFO: Neunzig (2003).

80a0298 T. finitella (Walker, 1863) (Nephopteryx) 5809
melanellus (Hulst, 1890) (Elasmopalpus)
80a0299 T. umbripennis (Hulst, 1895) (Pinipestis) 5810
gillettella (Dyar, 1904) (Ortholepis)
80a0300 T. oregonella (Barnes & McDunnough, 1918) (Tlascala) 5811

Genus TELETHUSIA Heinrich, 1956
ID INFO: Neunzig (2003).

80a0301 T. ovalis (Packard, 1873) (Pempelia) 5812
geminipunctella (Ragonot, 1893) (Nephopteryx)
latisfasciatella (Packard, 1873) (Nephopteryx)
modestella (Hulst, 1900) (Nephopteryx)
rhypodella (Hulst, 1887) (Glyptoteles) [5813]

Genus PHOBUS Heinrich, 1956
ID INFO: Neunzig (2003).

80a0302 P. brucei (Hulst, 1895) (Dioryctria) 5814
80a0303 P. funerella (Dyar, 1925) (Salebria) 5815
80a0304 P. curvatella (Ragonot, 1887) (Nephopteryx) 5816
80a0305 P. incertus Heinrich, 1956 (Phobus) 5817

Genus ACTRIX Heinrich, 1956
ID INFO: Neunzig (2003).

80a0306 A. nyssaecolella (Dyar, 1904) (Tacoma) 5818
80a0307 A. dissimulatrix Heinrich, 1956 (Actrix) 5819

Genus STYLOPALPIA Hampson, 1901
ID INFO: Neunzig (2003).

80a0308 S. luniferella Hampson, 1901 (Stylopalpia) N/I [NEW]
NOTE: This Neotropical pest of Peanut (*Arachis hypobaea* L.; Fabaceae) was likely introduced into NA (contributed by JDY).
lunigerella; Heinrich, 1956 (Stylopalpia) missp.
80a0309 S. scobiella (Grote, 1880) (Nephopteryx) 5820
decimerella (Hulst, 1888) (Lipographis)

Genus UTAH Ferris, 2012
ID INFO: Ferris (2012a).

80a0310 U. sanrafaelensis Ferris, 2012 (Utah) [NEW]

Genus PYLA Grote, 1882
ID INFO: Neunzig (2003).
MATILELLA Leraut, 2001
PYLA Ragonot, 1887

80a0311 P. fasciolalis (Hulst, 1886) (Pinipestis) 5822
80a0312 P. impostor Heinrich, 1956 (Pyla) 5823
80a0313 P. aequivoca Heinrich, 1956 (Pyla) 5824
gaspeensis McDunnough, 1958 (Pyla) [5825]
80a0314 P. arenaeola Balogh & Wilterding, 1998 (Pyla) [NEW]
80a0315 P. westerlandi Wilterding & Balogh, 2002 (Pyla) [NEW]
80a0316 P. insinuatrix Heinrich, 1956 (Pyla) 5826
80a0317 P. aenigmatica Heinrich, 1956 (Pyla) 5827
80a0318 P. criddlella Dyar, 1907 (Pyla) 5828
80a0319 P. fusca (Haworth, 1828) (Phycis) H 5829
annulatella (Zetterstedt, 1839) (Phycis)
bilineata (Curtis, 1850) (Phycita)
cacabella (Hulst, 1887) (Pinipestis)
carbonariella (Fischer von Röslerstamm, [1834-1843]) (Phycis)
frigidella (Packard, 1867) (Eudorea)
janthinella (Duponchel, 1836) (Phycis)
moestella (Walker, 1863) (Nephopteryx [sic])
posticella (Zetterstedt, 1839) (Phycis)
procellariana (Walker, 1863) (Paedisca)
spadicella (Zincken, 1818) (Phycis)
triplagiatella; Munroe, 1983 (Pyla) missp.
triplagiella (Dyar, 1904) (Salebria)
80a0320 P. hypochalciella (Ragonot, 1887) (Nephopteryx) 5830
blackmorella Dyar, 1921 (Pyla)
80a0321 P. hanhamella Dyar, 1904 (Pyla) 5831
80a0322 P. scintillans (Grote, 1881) (Nephopteryx) 5832
feella Dyar, 1921 (Pyla)
sylphiella Dyar, 1921 (Pyla)
80a0323 P. longispina Neunzig, 2003 (Pyla) [NEW]
80a0324 P. serrata Neunzig, 2003 (Pyla) [NEW]
80a0325 P. rainierella Dyar, 1904 (Pyla) 5833
80a0326 P. aeneella Hulst, 1895 (Pyla) 5834
80a0327 P. aeneoviridella Ragonot, 1887 (Pyla) 5835
80a0328 P. metalicella Hulst, 1895 (Pyla) 5836
80a0329 P. fasciella Barnes & McDunnough, 1917 (Pyla) 5837
80a0330 P. nigricula Heinrich, 1956 (Pyla) 5838
80a0331 P. viridisuffusella Barnes & McDunnough, 1917 (Pyla) 5839

Genus DIORYCTRIA Zeller, 1846
ID INFO: Neunzig (2003).
DIORYCTROIDES Mutuura & Munroe, 1974
OCRISIA Ragonot, 1893
PINIPESTIS Grote, 1878

Dioryctria abietella group Neunzig, 2003

80a0332 D. abietivorella (Grote, 1878) (Pinipestis) 5841
elegantella (Hulst, 1892) (Myelois)
reniculella (Grote, 1880) (Pinipestis)
80a0333 D. ebeli Mutuura & Munroe, 1979 (Dioryctria) [NEW]

Dioryctria schuetzeella group Neunzig, 2003

80a0334 D. reniculelloides Mutuura & Munroe, 1973 (Dioryctria) 5843
abietella of authors; (not [Denis & Schiffermüller], 1775) (Tinea) misappl.
80a0335 D. pseudotsugella Munroe, 1959 (Dioryctria) 5844

Dioryctria auranticella group Neunzig, 2003

80a0336 D. auranticella (Grote, 1883) (Nephopteryx) 5846
miniatella Ragonot, 1887 (Dioryctria)
xanthoenobares Dyar, 1911 (Dioryctria)
80a0337 D. disclusa Heinrich, 1953 (Dioryctria) 5847
80a0338 D. rossi Munroe, 1959 (Dioryctria) 5845

Dioryctria erythropasa group Neunzig, 2003

80a0339 D. erythropasa (Dyar, 1914) (Pinipestis) 5848

Dioryctria ponderosae group Neunzig, 2003

80a0340 D. ponderosae Dyar, 1914 (Dioryctria) 5850
80a0341 D. okanaganella Mutuura, Munroe & Ross, 1969 (Dioryctria) 5851
80a0342 D. hodgesi Neunzig, 2003 (Dioryctria) [NEW]

Dioryctria baumhoferi group Neunzig, 2003

80a0343 D. baumhoferi Heinrich, 1956 (Dioryctria) 5860
80a0344 D. pentictonella Mutuura, Munroe & Ross, 1969 (Dioryctria) 5861
80a0345 D. muricativorella Neunzig, 2003 (Dioryctria) [NEW]
80a0346 D. vancouverella Mutuura, Munroe & Ross, 1969 (Dioryctria) [NEW]
80a0347 D. durangoensis Mutuura & Neunzig, 1986 (Dioryctria) [NEW]
80a0348 D. gulosella (Hulst, 1890) (Acrobasis) 5862
80a0349 D. subtracta Heinrich, 1956 (Dioryctria) 5863
80a0350 D. inyoensis Neunzig, 2003 (Dioryctria) [NEW]
80a0351 D. clarioralis (Walker, 1863) (Nephopteryx) 5863.1
brunneella (Dyar, 1904) (Ulophora)
80a0352 D. sierra Neunzig, 2003 (Dioryctria) [NEW]

Dioryctria zimmermani group Neunzig, 2003

80a0353 D. zimmermani (Grote, 1877) (Nephopteryx) 5852
austriana (Cosens, 1906) (Retinia)
80a0354 D. delectella (Hulst, 1895) (Salebria) [NEW]
80a0355 D. cambiicola (Dyar, 1914) (Pinipestis) 5854
80a0356 D. merkeli Mutuura & Munroe, 1979 (Dioryctria) [NEW]
80a0357 D. taedivorella Neunzig & Leidy, 1989 (Dioryctria) [NEW]
80a0358 D. amatella (Hulst, 1887) (Nephopteryx) 5853
80a0359 D. taedae Schaber & Wood, 1971 (Dioryctria) 5842
80a0360 D. yatesi Mutuura & Munroe, 1979 (Dioryctria) [NEW]
80a0361 D. resinosella Mutuura, 1982 (Dioryctria) [NEW]
80a0362 D. banksiella Mutuura, Munroe & Ross, 1969 (Dioryctria) 5858
80a0363 D. tumicolella Mutuura, Munroe & Ross, 1969 (Dioryctria) 5855
80a0364 D. contortella Mutuura, Munroe & Ross, 1969 (Dioryctria) 5856
80a0365 D. monticolella Mutuura, Munroe & Ross, 1969 (Dioryctria) 5857
80a0366 D. albovittella (Hulst, 1890) (Pinipestis) 5859
80a0367 D. westerlandi Donahue & Neunzig, 2002 (Dioryctria) [NEW]
80a0368 D. fordi Donahue & Neunzig, 2002 (Dioryctria) [NEW]
80a0369 D. mutuurai Neunzig, 2003 (Dioryctria) [NEW]

Dioryctria pygmaeella group Neunzig, 2003

80a0370 D. pygmaeella Ragonot, 1887 (Dioryctria) 5849
80a0371 D. caesirufella Blanchard & Knudson, 1983 (Dioryctria) [NEW]

Genus PALATKA Hulst, 1892
ID INFO: Neunzig (2003).
PALATKA Hulst, 1891

80a0372 P. nymphaeella (Hulst, 1892) (Diviana) 5930
verecuntella (Grossbeck, 1917) (Diviana)
80a0373 P. powelli Neunzig & Solis, 1996 (Palatka) [NEW]

Genus PHILODEMA Heinrich, 1956
ID INFO: Neunzig (2003).

80a0374 P. rhoiella (Dyar, 1904) (Sarata) 5885

Genus PIMODES Blanchard, 1976
ID INFO: Neunzig (2003).

80a0375 P. insularis Blanchard, 1976 (Pimodes) 5754
80a0376 P. caliginosus Neunzig, 2003 (Pimodes) [NEW]

Genus SARATA Ragonot, 1887
ID INFO: Heinrich (1956), Neunzig (2003).
NOTE: Neunzig (2003) omitted the species *alpha*, *beta*, *gamma*, *iota*, *epsilon*, *phi*, *kappa*, and *delta*, all described by Heinrich (1956) and known only from unassociated females.

80a0377 S. dophnerella Ragonot, 1887 (Sarata) [NEW]
dnopherella; Ragonot, 1893 (Sarata) missp. *[5871]*
80a0378 S. nigrifasciella Ragonot, 1887 (Sarata) 5872
80a0379 S. cinereella Hulst, [1901] 1900 (Sarata) 5873
80a0380 S. atrella (Hulst, 1890) (Megasis) 5869
80a0381 S. caudellella (Dyar, 1904) (Megasis) 5870
80a0382 S. rubrithoracella (Barnes & McDunnough, 1913) (Megasis) 5874
80a0383 S. tephrella Ragonot, 1893 (Sarata) 5875
80a0384 S. edwardsialis (Hulst, 1886) (Megaphysis) 5865
polyphemella (Ragonot, 1893) (Megasis)
80a0385 S. pullatella (Ragonot, 1887) (Megasis) 5866
80a0386 S. punctella (Dyar, 1914) (Megasis) 5867
septentrionaria Heinrich, 1956 (Sarata)
80a0387 S. incanella (Hulst, 1895) (Epischnia) 5868
aridella (Dyar, 1905) (Megasis)
80a0388 S. perfuscalis (Hulst, 1886) (Nephopteryx) 5880
excantalis (Hulst, 1886) (Anerastia)
80a0389 S. alpha Heinrich, 1956 (Sarata) 5876
80a0390 S. beta Heinrich, 1956 (Sarata) 5877
80a0391 S. gamma Heinrich, 1956 (Sarata) 5878
80a0392 S. iota Heinrich, 1956 (Sarata) 5879
80a0393 S. epsilon Heinrich, 1956 (Sarata) 5881
80a0394 S. phi Heinrich, 1956 (Sarata) 5882
80a0395 S. kappa Heinrich, 1956 (Sarata) 5883
80a0396 S. delta Heinrich, 1956 (Sarata) 5884

Genus LIPOGRAPHIS Ragonot, 1887
ID INFO: Neunzig (2003).

80a0397 L. fenestrella (Packard, 1873) (Pempelia) 5886
humilis Ragonot, 1887 (Lipographis)
leoninella (Packard, 1873) (Pempelia) *[5887]*
pallidella (Dyar, 1904) (Pyla)
80a0398 L. umbrella (Dyar, 1908) (Sarata) 5889
80a0399 L. truncatella (Wright, 1916) (Hypochalcia) 5888
80a0400 L. unicolor Ferris, 2012 (Lipographis) [NEW]

Genus QUASISARATA Neunzig, 2003
ID INFO: Neunzig (2003).

80a0401 Q. subosseella (Hulst, 1892) (Lipographis) [NEW]

Genus CANARSIA Hulst, 1890
ID INFO: Neunzig (2003).
CANARSIANA Strand, 1920

80a0402 C. ulmiarrosorella (Clemens, 1860) (Nephopteryx) 5926
discocellularis (Strand, 1920) (Canarsiana)
feliculella Dyar, 1907 (Canarsia)
fuscatella (Hulst, 1888) (Honora)
gracilella Hulst, 1900 (Canarsia)
pneumatella (Hulst, 1887) (Stenoptycha)
ulmella (Ragonot, 1887) (Psorosa)

Genus CARISTANIUS Heinrich, 1956
ID INFO: Neunzig (2003).

80a0403 C. decoloralis (Walker, 1863) (Trachonitis) 5742
floridellus (Hulst, 1890) (Elasmopalpus)
furfurella (Hulst, 1887) (Nephopteryx)
metagrammalis (Walker, 1863) (Nephopteryx)
80a0404 C. minimus Neunzig, 1977 (Caristanius) 5743

Genus ADELPHIA Heinrich, 1956
ID INFO: Neunzig (2003).

80a0405 A. petrella (Zeller, 1846) (Pempelia) 5890
hapsella (Hulst, 1887) (Nephopteryx)
rubiginella (Walker, 1863) (Nephopteryx)
rufinalis (Walker, 1863) (Nephopteryx)

Genus UFA Walker, 1863
ID INFO: Neunzig (2003).

80a0406 U. rubedinella (Zeller, 1848) (Pempelia) 5895
deprivalis (Walker, 1863) (Nephopteryx)
minualis (Walker, 1863) (Nephopteryx)
pyrrhochrellus (Ragonot, 1888) (Elasmopalpus)
rufescentalis (Walker, 1863) (Nephopteryx)
translucida (Walker, 1863) (Acrobasis)
venezuelalis Walker, 1863 (Ufa)
80a0407 U. senta Heinrich, 1956 (Ufa) 5894
80a0408 U. lithosella (Ragonot, 1887) (Selagia) 5892
luteella (Hulst, [1901] 1900) (Honora)
roseitinctella (Dyar, 1912) (Ancylostomia) *[5893]*

Genus ELASMOPALPUS Blanchard, 1852
ID INFO: Neunzig (2003).

80a0409 E. lignosella (Zeller, 1848) (Pempelia) 5896
angustellus Blanchard, 1852 (Elasmopalpus)
anthracellus Ragonot, 1888 (Elasmopalpus)
carbonella (Hulst, 1888) (Dasypyga)
incautella (Zeller, 1872) (Pempelia)
major (Zeller, 1874) (Pempelia)
puer Dyar, 1919 (Elasmopalpus)
tartarella (Zeller, 1872) (Pempelia)

Genus ACRONCOSA Barnes & McDunnough, 1917
ID INFO: Neunzig (2003).

80a0410 A. albiflavella Barnes & McDunnough, 1917 (Acroncosa) 5897
80a0411 A. minima Neunzig, 2003 (Acroncosa) [NEW]
80a0412 A. castrella Barnes & McDunnough, 1917 (Acroncosa) [NEW]
80a0413 A. similella Barnes & McDunnough, 1917 (Acroncosa) 5898

Genus PSEUDADELPHIA Neunzig, 2003
ID INFO: Neunzig (2003).

80a0414 P. ochripunctella (Dyar, 1908) (Salebria) 5891

Genus ZAMAGIRIA Dyar, 1914
ID INFO: Neunzig (2003).
ANEGCEPHALESIS Dyar, 1917

80a0415 Z. laidion (Zeller, 1881) (Myelois) 5739
deia Dyar, 1919 (Zamagiria)
striella Dyar, 1919 (Zamagiria)
80a0416 Z. australella (Hulst, 1900) (Selagia) 5737
bumeliella (Barnes & McDunnough, 1913) (Immyrla)
80a0417 Z. arctella (Ragonot, 1887) (Phycis) 5740
cathaeretes (Dyar, 1917) (Anegcephalesis)
catheretes; (Dyar, 1919) (Anegcephalesis) missp.

Genus PHILOCROTONA Neunzig, 2003
ID INFO: Neunzig (2003).

80a0418 P. kendalli (Blanchard, 1970) (Zamagiria) 5738

Genus ANCYLOSTOMIA Ragonot, 1893
ID INFO: Neunzig (2003).

80a0419 A. stercorea (Zeller, 1848) (Myelois) 5741
diffissella (Zeller, 1881) (Pempelia)
ignobilis (Butler, 1878) (Anerastia)

Genus PASSADENA Hulst, 1900
ID INFO: Neunzig (2003).

80a0420 P. flavidorsella (Ragonot, 1887) (Anoristia) 5899
canescentella (Hulst, 1890) (Meroptera)
cinctella (Hulst, 1900) (Megasis)
constantella Hulst, 1900 (Passadena)

Genus PASSADENOIDES Neunzig, 2003
ID INFO: Neunzig (2003).

80a0421 P. donahuei Neunzig, 2003 (Passadenoides) [NEW]
80a0422 P. pullus Neunzig, 2003 (Passadenoides) [NEW]
80a0423 P. montanus Ferris, 2004 (Passadenoides) [NEW]

Genus CHORRERA Dyar, 1914
ID INFO: Neunzig (2003).

80a0424 C. extrincica (Dyar, 1919) (Rhodophaea) [NEW]

Genus METEPHESTIA Ragonot & Hampson, 1901
ID INFO: Neunzig (2003).

80a0425 M. simplicula (Zeller, 1881) (Ephestia) 5993

Genus DIVIANA Ragonot, 1888
ID INFO: Neunzig (2003).
DANNEMORA Hulst, 1890

80a0426 D. eudoreella Ragonot, 1888 (Diviana) 5929
edentella (Hulst, 1890) (Dannemora)

Genus MACRORRHINIA Ragonot, 1887
ID INFO: Neunzig (2003), Hayden & Landry (2020).
NOTE: Synonymy of *Arcola* and *Vogtia* by Hayden & Landry (2020).
ARCOLA Shaffer, 1995
DIVITIACA Barnes & McDunnough, 1913
DOLICHORRHINIA Ragonot, 1888
OCALA Hulst, 1892
VOGTIA Pastrana, 1961 preocc.

80a0427 M. aureofasciella Ragonot, 1887 (Macrorrhinia) 5912
80a0428 M. ochrella (Barnes & McDunnough, 1913) (Divitiaca) 5909
simulella (Barnes & McDunnough, 1913) (Divitiaca) *[5910]*
80a0429 M. endonephele (Hampson, 1918) (Rinaphe) I [NEW]
NOTE: Introduced to Gainesville, FL from South America for biocontrol of Alligatorweed (*Alternanthera philoxeroides* (Mart.) Griseb.; Amaranthaceae) in 1971 (Hayden & Landry 2020).
ignetincta (Hampson, 1918) (Rinaphe)
malloi (Pastrana, 1961) (Vogtia)
NOTE: Synonym of *M. endonephele* per Hayden & Landry (2020).
signifera Blanchard, 1976 (Macrorrhinia) *[5913]*
80a0430 M. parvulella (Barnes & McDunnough, 1913) (Divitiaca) 5911
ssp. a. parvulella (Barnes & McDunnough, 1913) (Divitiaca)
80a0431 M. dryadella (Hulst, 1892) (Ocala) 5914
platanella (Grossbeck, 1917) (Dolichorrhinia)

Genus CREOBOTA Turner, 1931 (excl.)
ID INFO: Heinrich (1956).

80a0432E C. grossipunctella (Ragonot, 1888) (Myelois) EXCL. 5715
NOTE: This species was treated in the "unplaced" section of Heinrich (1956); it was introduced to NA from Australia but has not established (Scholtens & Solis 2015).

Genus FUNDELLA Zeller, 1848
ID INFO: Heinrich (1956).
BALLOVIA Dyar, 1913

80a0433 F. pellucens Zeller, 1848 (Fundella) 5725
cistipennis (Dyar, 1913) (Ballovia)
80a0434 F. argentina Dyar, 1919 (Fundella) 5726
agapella Schaus, 1923 (Fundella)
eucasis Dyar, 1919 (Fundella)
80a0435 F. ignobilis Heinrich, 1945 (Fundella) [NEW]

Genus PROMYLEA Ragonot, 1887
ID INFO: Heinrich (1956).

80a0436 P. lunigerella Ragonot, 1887 (Promylea) 5727
ssp. a. lunigerella Ragonot, 1887 (Promylea)

ssp. b. glendella (Dyar, 1906) (Myelois)

Genus ANADELOSEMIA Dyar, 1919
ID INFO: Heinrich (1956).

80a0437 A. texanella (Hulst, 1892) (Myelois) 5728
dulciella (Hulst, 1900) (Myelois)
80a0438 A. condigna Heinrich, 1956 (Anadelosemia) 5729

Genus DASYPYGA Ragonot, 1887
ID INFO: Heinrich (1956).

80a0439 D. alternosquamella Ragonot, 1887 (Dasypyga) 5730
stictophorella Ragonot, 1887 (Dasypyga)
80a0440 D. salmocolor Blanchard, 1970 (Dasypyga) 5731

Genus SCORYLUS Heinrich, 1956
ID INFO: Heinrich (1956).

80a0441 S. cubensis Heinrich, 1956 (Scorylus) STRAY [NEW]

Genus DAVARA Walker, 1859
ID INFO: Heinrich (1956).
EUCARDINIA Dyar, 1918
HOMALOPALPIA Dyar, 1914

80a0442 D. caricae (Dyar, 1913) (Ulophora) 5732
dalera (Dyar, 1914) (Homalopalpia)

Genus SARASOTA Hulst, [1901] 1900
ID INFO: Heinrich (1956).
CUBA Dyar, 1919

80a0443 S. plumigerella Hulst, [1901] 1900 (Sarasota) 5733

Genus ATHELOCA Heinrich, 1956
ID INFO: Heinrich (1956).

80a0444 A. subrufella (Hulst, 1887) (Nephopteryx) 5734
filiolella (Hulst, 1888) (Nephopteryx)
ptychis (Dyar, 1919) (Hyalospila)

Genus TRIOZOSNEURA Blanchard, 1973
ID INFO: Blanchard (1973c).

80a0445 T. dorsonotata Blanchard, 1973 (Triozosneura) 5735

Genus MONOPTILOTA Hulst, 1900
ID INFO: Heinrich (1956).

80a0446 M. pergratialis (Hulst, 1886) (Nephopteryx) 5736
grotella (Ragonot, 1887) (Nephopteryx)
nubilella Hulst, 1900 (Monoptilota)

nus ETIELLA Zeller, 1839
NFO: Heinrich (1956).
ALATA Walker, 1863
ARUCHA Walker, 1863
CERATAMNA Butler, 1880
MELLA Walker, 1859
MODIANA Walker, 1863
RHAMPHODES Guenée, 1845

0447 E. zinckenella (Treitschke, 1832) (Phycis) C/I 5744
NOTE: This taxon may represent a species complex; BOLD data place Old World and New World members of this taxon in separate BINs (contributed by JDY).
anticalis (Walker, 1863) (Alata)
colonnellus (Costa, [1836]) (Chilo)
decipiens Staudinger, 1870 (Etiella)
dymnusalis (Walker, 1859) (Mella)
etiella (Treitschke, 1835) (Phycis)
hastiferella (Walker, 1866) (Alata)
heraldella (Guenée, 1862) (Rhamphodes)
indicatalis (Walker, 1863) (Arucha)
madagascariensis Saalmüller, 1880 (Etiella)
majorellus (Costa, [1836]) (Chilo)
marginella (Fabricius, 1781) (Tinea)
rubribasella Hulst, 1890 (Etiella)
sabulinus (Butler, 1879) (Crambus)
schisticolor Zeller, 1881 (Etiella)
scitivittalis (Walker, 1863) (Modiana)
sincerella Meyrick, 1879 (Etiella)
spartiella (Rondani, 1876) (Pempelia)
villosella Hulst, 1887 (Etiella)

Genus HYPOCHALCIA Hübner, [1825]
ARAXES Stephens, 1834

80a0448 H. ahenella ([Denis & Schiffermüller], 1775) (Tinea) H/I [NEW]
aeneella (Hübner, [1796]) (Tinea)
arduella (Bruand, 1848) (Oncocera)
bistrigella (Duponchel, 1836) (Phycis)
bruneo-violaceella (Bruand, 1850) (Phycis)
caucasica Ragonot, 1893 (Hypochalcia)
fasciatella Staudinger, 1881 (Hypochalcia)
fuliginella (Duponchel, 1836) (Phycis)
ghilianii Staudinger, 1870 (Hypochalcia)
griseoaeneella Ragonot, 1887 (Hypochalcia)
hulstiella Ragonot, 1887 (Hypochalcia) *[5821]*
NOTE: Synonymized by Leraut (2002). Scholtens & Solis (2015) detailed the synonymy in a note, but erroneously appended the word "valid" to the name in the body of the list.
lignella (Eversmann, 1844) (Phycis)
lugubrella Hering, 1924 (Hypochalcia)
luridella (Schläger, 1848) (Phycis)
obscuratus (Haworth, 1796) (Crambus)
robustella Toll, 1938 (Hypochalcia)
rubiginella (Treitschke, 1833) (Phycis)
tetrix (Haworth, 1811) (Palparia)
uniformata (Dufrane, 1957) (Phycis)

Genus PHYCITOPSIS Ragonot, 1887
ID INFO: Heinrich (1956).

80a0449 P. flavicornella Ragonot, 1887 (Phycitopsis) 5840
NOTE: This species was treated in the "unplaced" section of Heinrich (1956); the description may be based on a mislabeled specimen.

Genus ORYCTOMETOPIA Ragonot, 1888
ID INFO: Heinrich (1956).

80a0450 O. fossulatella Ragonot, 1888 (Oryctometopia) 5864
moeschleri (Ragonot, 1888) (Phycita)

Genus ULOPHORA Ragonot, 1890
ID INFO: Heinrich (1956).
ACROMESERES Dyar, 1919

80a0451 U. groteii Ragonot, 1890 (Ulophora) 5900
tephrosiella Dyar, 1904 (Ulophora)

Genus TACOMA Hulst, 1888
ID INFO: Heinrich (1956).

80a0452 T. feriella Hulst, 1888 (Tacoma) 5901
submedianella Dyar, 1913 (Tacoma)

Genus RAGONOTIA Grote, 1888
ID INFO: Shaffer (1968).
CIRIS Ragonot, 1887
PSAMMIA Hampson, 1930

80a0453 R. dotalis (Hulst, 1886) (Anerastia) 5902
discigerella (Ragonot, 1887) (Ciris)
flavipicta (Hampson, 1930) (Psammia)
indianella (Dyar, 1923) (Megasis)
megasis (Dyar, 1923) (Megasis)
olivella (Hulst, 1888) (Anoristia)
saganella Hulst, 1890 (Ragonotia)

Genus MARTIA Ragonot, 1887
ID INFO: Shaffer (1968).
URULA Hulst, 1900

80a0454 M. arizonella Ragonot, 1887 (Martia) 5903
incongruella (Hulst, 1900) (Urula)

Genus EUMYSIA Dyar, 1925
ID INFO: Heinrich (1956).

80a0455 E. mysiella (Dyar, 1905) (Yosemetia) 5904
80a0456 E. maidella (Dyar, 1905) (Yosemetia) 5905
80a0457 E. fuscatella (Hulst, 1900) (Zophodia) 5906
80a0458 E. semicana Heinrich, 1956 (Eumysia) 5907
80a0459 E. idahoensis Mackie, 1958 (Eumysia) 5908
80a0460 E. pallidipennella (Hulst, 1895) (Volusia) [NEW]
pallidipennata; (Dyar, 1902) (Trivolusia) missp.

Genus MARICOPA Hulst, 1890
ID INFO: Heinrich (1956).
VALDIVIA Ragonot, 1888

80a0461 M. lativittella (Ragonot, 1887) (Ciris) 5915
aureomaculella (Dyar, 1904) (Zophodia)

Genus ANCYLOSIS Zeller, 1839
ID INFO (partial): Hayden & Dickel (2014).
ACORNIGERULA Amsel, 1935
CABOTIA Ragonot, 1888
CORNIGERULA Amsel, 1935
ENCYSTIA Hampson, 1901
HARNOCHA Dyar, 1914
HEDEMANNIA Ragonot, 1887
HETEROGRAPHIS Ragonot, 1885
HULSTEA; Hulst, 1903 missp.
HULSTIA Ragonot, 1901
HYPOGRAPHIA Ragonot, 1890
HYPOGRYPHIA Ragonot, 1890
IRANSHARIA Amsel, 1959
MONA Hulst, 1888
PSEUDOCABOTIA Blanchard & Knudson, 1985
STAUDINGERIA Ragonot, 1887
SYRIA Ragonot, 1887

80a0462 A. morrisonella (Ragonot, 1887) (Heterographis) 5916
coloradensis (Ragonot, 1887) (Heterographis)
ignistrigella (Ragonot & Hampson, 1901) (Heterographis)
olbiella (Hulst, 1888) (Mona)
palloricostella (Walter, 1928) (Honora)
80a0463 A. albipenella (Hulst, 1887) (Pempelia) 5917
olivacella (Dyar, 1904) (Staudingeria)
perluteella (Dyar, 1904) (Staudingeria)
80a0464 A. undulatella (Clemens, 1860) (Nephopteryx) 5918
fumosella (Hulst, 1900) (Honora)
oblitella of authors; (not Zeller, 1848) (Ephestia) misappl.
obsipella (Hulst, 1888) (Honora)
rubiginalis (Walker, [1866]) (Scoparia)
80a0465 A. bonhoti (Hampson, 1901) (Encystia) [NEW]
80a0466 A. balconiensis (Blanchard & Knudson, 1985) (Pseudocabotia) [NEW]

Genus HONORA Grote, 1878
ID INFO: Heinrich (1956).

80a0467 H. mellinella Grote, 1878 (Honora) 5919
ochrimaculella Ragonot, 1887 (Honora)
80a0468 H. subsciurella Ragonot, 1887 (Honora) 5920
80a0469 H. sciurella Ragonot, 1887 (Honora) 5921
80a0470 H. dotella Dyar, 1910 (Honora) 5922
80a0471 H. montinatatella (Hulst, 1887) (Spermatophthora) 5923
canicostella Ragonot, 1887 (Honora)
80a0472 H. perdubiella (Dyar, 1905) (Zophodia) 5924
80a0473 H. dulciella Hulst, [1901] 1900 (Honora) 5925
NOTE: Known only from the female type, and possibly misplaced in *Honora* (Heinrich 1956).

Genus EURYTHMIDIA Ragonot & Hampson, 1901
ID INFO: Heinrich (1956).

80a0474 E. ignidorsella (Ragonot, 1887) (Eurythmia) 5927

Genus WUNDERIA Grossbeck, 1917
ID INFO: Heinrich (1956).

80a0475 W. neaeriatella Grossbeck, 1917 (Wunderia) 5928

Genus PATRICIOLA Heinrich, 1956
ID INFO: Heinrich (1956).

80a0476 P. semicana Heinrich, 1956 (Patriciola) 5932

Genus LASCELINA Heinrich, 1956
ID INFO: Heinrich (1956).

80a0477 L. canens Heinrich, 1956 (Lascelina) 5992

Genus PROTASIA Heinrich, 1956
ID INFO: Heinrich (1956).

80a0478 P. mirabilicornella (Dyar, 1908) (Valdivia) [NEW]
NOTE: Described from CA but overlooked by Munroe (in Hodges et al. 1983).

Genus LAETILIA Ragonot, 1890
ID INFO: Neunzig (1997).

80a0479 L. coccidivora (Comstock, 1879) (Dakruma) 5949
ssp. a. coccidivora (Comstock, 1879) (Dakruma)
ssp. b. cardini Dyar, 1918 (Laetilia)
80a0480 L. hulstii Cockerell, 1897 (Laetilia) [NEW]
quadricolorella (Dyar, 1904) (Atascosa)
80a0481 L. dilatifasciella (Ragonot, 1887) (Zophodia) [NEW]
80a0482 L. zamacrella Dyar, 1925 (Laetilia) 5950
80a0483 L. ephestiella (Ragonot, 1887) (Dakruma) 5952
lustrella (Dyar, 1903) (Maricopa)
80a0484 L. myersella Dyar, 1910 (Laetilia) 5951
80a0485 L. fiskeella Dyar, 1904 (Laetilia) [NEW]
fiskella; Heinrich, 1956 (Laetilia) missp. *[5953]*
80a0486 L. cinerosella Neunzig, 1997 (Laetilia) [NEW]
80a0487 L. bellivorella Neunzig, 1997 (Laetilia) [NEW]

Genus ROSTROLAETILIA Blanchard & Ferguson, 1975
ID INFO: Neunzig (1997).

80a0488 R. placidella (Barnes & McDunnough, 1918) (Parramatta) 5954
80a0489 R. minimella Blanchard & Ferguson, 1975 (Rostrolaetilia) 5955
80a0490 R. placidissima Blanchard & Ferguson, 1975 (Rostrolaetilia) 5956
80a0491 R. utahensis Blanchard & Ferguson, 1975 (Rostrolaetilia) 5957
80a0492 R. coloradella Blanchard & Ferguson, 1975 (Rostrolaetilia) 5958
80a0493 R. eureka Blanchard & Ferguson, 1975 (Rostrolaetilia) 5959
80a0494 R. nigromaculella (Hulst, [1901] 1900) (Aurora) 5960
80a0495 R. ardiferella (Hulst, 1888) (Altoona) 5961
80a0496 R. texanella Blanchard & Ferguson, 1975 (Rostrolaetilia) 5962
80a0497 R. pinalensis Blanchard & Ferguson, 1975 (Rostrolaetilia) 5963

Genus WELDERELLA Blanchard, 1978
ID INFO: Neunzig (1997).

80a0498 W. parvella (Dyar, 1906) (Ollia) 5964

Genus BAPHALA Heinrich, 1956
ID INFO: Neunzig (1997).
NOTE: Roesler (1967) placed this genus as a synonym of *Eccopisa* Zeller, 1848, but Neunzig (1997) subsequently recognized *Baphala* as valid, which we follow pending further research.

80a0499 B. pallida (Comstock, 1880) (Dakruma) [NEW]
basimaculatella (Ragonot, 1887) (Vitula) *[5965]*
80a0500 B. eremiella (Dyar, 1910) (Laetilia) [NEW]
80a0501 B. phaeolella Neunzig, 1997 (Baphala) [NEW]
80a0502 B. homoeosomella (Zeller, 1881) (Euzophera) [NEW]
NOTE: Documented from the FL Keys by Dickel & Heppner (2020).
bodkini (Dyar, 1913) (Vitula)
rusto (Dyar, 1914) (Vitula)
saissetiae (Dyar, 1929) (Vitula)
tobago (Dyar, 1914) (Vitula)

Genus ZOPHODIA Hübner, [1825]
ID INFO: Neunzig (1997).
DAKRUMA Grote, 1878

80a0503 Z. grossulariella (Hübner, [1809]) (Tinea) H/I [NEW]
bella Hulst, 1892 (Zophodia)
convolutella (Hübner, [1796]) (Tinea) preocc. *[5968]*
dilativitta Dyar, 1925 (Zophodia)
franconiella (Hulst, 1890) (Euzophera)
grossulariae (Riley, 1869) (Pempelia)
grossularialis; Hübner, [1825] (Zophodia) emend.
ihouna Dyar, 1925 (Zophodia)
magnificans Dyar, 1925 (Zophodia)
pallidella Lambillon, 1921 (Zophodia)
turbatella (Grote, 1878) (Dakruma)

80a0504 Z. multistriatella (Blanchard & Knudson, 1982) (Ozamia) [NEW]

Genus "ZOPHODIA" Hübner, [1825] PROV. PL.

80a0505 Z. epischnioides Hulst, 1900 (Zophodia) mispl. 5969
NOTE: This species appears to be misplaced here; it probably belongs in Anerastiini (Heinrich 1956). The type has not been located.

Genus OZAMIA Ragonot & Hampson, 1901
ID INFO: Neunzig (1997).

80a0506 O. lucidalis (Walker, 1863) (Trachonitis) [NEW]
80a0507 O. thalassophila Dyar, 1925 (Ozamia) 5988
80a0508 O. fuscomaculella (Wright, 1916) (Euzophera) 5987
heliophila Dyar, 1925 (Ozamia)
80a0509 O. clarefacta Dyar, 1919 (Ozamia) [NEW]

Genus CACTOBROSIS Dyar, 1914
ID INFO: Neunzig (1997).

80a0510 C. fernaldialis (Hulst, 1886) (Megaphycis) 5989
cinerella (Hulst, [1901] 1900) (Honora)
gigantella (Ragonot, 1888) (Euzophera)
80a0511E C. longipennella (Hampson, 1901) (Euzophera) EXCL. 5990
NOTE: Reported from NA by Heinrich (1956), but Neunzig (1997) says it does not occur north of Mexico. The name *longipennella* was referred to by Druce before the description was actually published by Hampson, so the Druce name is a nomen nudum.
longipennella (Druce, 1901) (Euzophera) nom. nud.

Genus ECHINOCERETA Neunzig, 1997
ID INFO: Neunzig (1997).

80a0512 E. strigalis (Barnes & McDunnough, 1912) (Euzophera) 5991

Genus MELITARA Walker, 1863
ID INFO: Neunzig (1997).
MEGAPHYCIS Grote, 1882
OLYCELLA Dyar, 1928

80a0513 M. prodenialis Walker, 1863 (Melitara) 5970
bollii (Zeller, 1872) (Zophodia)
80a0514 M. dentata (Grote, 1876) (Zophodia) 5971
dentata (Grote, 1877) (Zophodia) preocc.
NOTE: Grote included a description of this species in two publications.
80a0515 M. doddalis Dyar, 1925 (Melitara) [NEW]
NOTE: Listed twice in Pohl et al. (2016), as P-No. 800592 and P-No. 800594 (the latter excluded from the present list).
80a0516 M. texana Neunzig, 1997 (Melitara) [NEW]
80a0517 M. apicigrammella Blanchard & Knudson, 1985 (Melitara) [NEW]
80a0518 M. junctolineella Hulst, 1900 (Melitara) 5972
ssp. a. junctolineella Hulst, 1900 (Melitara)
80a0519 M. subumbrella (Dyar, 1925) (Olyca) 5973
nephelepasa of authors; (not Dyar, 1925) (Olyca) misappl.

Genus ALBERADA Heinrich, 1939
ID INFO: Neunzig (1997).

80a0520 A. parabates (Dyar, 1913) (Melitara) 5974
80a0521 A. bidentella (Dyar, 1908) (Zophodia) 5975
holochlora (Dyar, 1925) (Zophodia) *[5976]*
80a0522 A. californiensis Neunzig, 1997 (Alberada) [NEW]
80a0523 A. franclemonti Neunzig, 1997 (Alberada) [NEW]
80a0524 A. candida Neunzig, 1997 (Alberada) [NEW]

Genus CACTOBLASTIS Ragonot, 1901
ID INFO: Neunzig (1997).
NEOPYRALIS Brèthes, 1920

80a0525 C. cactorum (Berg, 1885) (Zophodia) I [NEW]
NOTE: This South American species was introduced to the West Indies in 1957 for biological control of *Opuntia* (Cactaceae) species (Neunzig 1997). It arrived in FL by 1989, either on its own or by accidental human assistance, and has spread across southeastern USA.

Genus CAHELA Heinrich, 1939
ID INFO: Neunzig (1997).

80a0526 C. ponderosella (Barnes & McDunnough, 1918) (Olyca) 5977
interstitialis (Dyar, 1925) (Cactobrosis)
phoenicis (Dyar, 1925) (Cactobrosis)
purgatoria (Dyar, 1925) (Zophodia)

Genus RUMATHA Heinrich, 1939
ID INFO: Neunzig (1997).

80a0527 R. glaucatella (Hulst, 1888) (Honora) 5978
80a0528 R. polingella (Dyar, 1906) (Zophodia) 5980
80a0529 R. bihinda (Dyar, 1922) (Zophodia) 5979
80a0530 R. jacumba Neunzig, 1997 (Rumatha) [NEW]

Genus YOSEMITIA Ragonot, 1901
ID INFO: Neunzig (1997).
YOSEMETIA; Hulst, [1903] missp.

80a0531 Y. graciella (Hulst, 1887) (Spermatophora) 5981
longipennella (Hulst, 1888) (Zophodia) *[5982]*
80a0532 Y. fieldiella (Dyar, 1913) (Zophodia) 5983

Genus EREMBERGA Heinrich, 1939
ID INFO: Neunzig (1997).

80a0533 E. leuconips (Dyar, 1925) (Cactobrosis) 5984
80a0534 E. creabates (Dyar, 1923) (Olyca) 5985
80a0535 E. insignis Heinrich, 1939 (Eremberga) 5986

Genus RHAGEA Heinrich, 1956
ID INFO: Neunzig (1997).

80a0536 R. packardella (Ragonot, 1887) (Zophodia) 5966
orobanchella (Dyar, 1904) (Zophodia)
80a0537 R. stigmella (Dyar, 1910) (Zophodia) 5967
maculicula (Dyar, 1913) (Yosemitia)

Genus ANDERIDA Heinrich, 1956
ID INFO: Neunzig (1997).

80a0538 A. sonorella (Ragonot, 1887) (Euzophera) emend. 5933
NOTE: This species was misspelled "*senorella*" in the original description, but was clearly named after Sonora, Mexico.
placidella (Dyar, 1908) (Euzophera)
senorella; (Ragonot, 1887) (Euzophera) orig. missp.
80a0539 A. peorinella Blanchard & Knudson, 1985 (Anderida) [NEW]

Genus CASSIANA Heinrich, 1956
ID INFO: Neunzig (1997).

80a0540 C. malacella (Dyar, 1914) (Vitula) [NEW]

Genus MESCINIA Ragonot & Hampson, 1901
ID INFO: Neunzig (1997).

80a0541 M. estrella Barnes & McDunnough, 1913 (Mescinia) 5934
80a0542 M. berosa Dyar, 1914 (Mescinia) [NEW]
80a0543 M. parvula (Zeller, 1881) (Ephestia) [NEW]
neoparvula Neunzig & Dow, 1993 (Mescinia)
80a0544 M. texanica Neunzig, 1997 (Mescinia) [NEW]

Genus PHESTINIA Hampson, 1930

80a0545 P. costella Hampson, 1930 (Phestinia) [NEW]

Genus COMOTIA Dyar, 1914
ID INFO: Heppner & Dickel (2008).

80a0546 C. torsicornis Dyar, 1914 (Comotia) [NEW]

Genus BEMA Dyar, 1914
ID INFO: Neunzig (1997).
RELMIS Dyar, 1914

80a0547 B. neuricella (Zeller, 1848) (Ephestia) [NEW]
myja Dyar, 1914 (Bema)

Genus HOMOEOSOMA Curtis, 1833
ID INFO: Neunzig (1997).
ANHOMOEOSOMA Roesler, 1965
LOTRIA Guenée, 1845
PHYCIDEA Zeller, 1839

80a0548 H. electella (Hulst, 1887) (Anerastia) 5935
differtella Barnes & McDunnough, 1913 (Homoeosoma)
opalescella (Hulst, 1887) (Ephestia)
tenuipunctella Ragonot, 1887 (Homoeosoma)

texanella Ragonot, 1887 (Homoeosoma)

80a0549 H. phaeoboreas Goodson & Neunzig, 1993 (Homoeosoma) [NEW]
80a0550 H. inornatella (Hulst, 1900) (Euzophera) 5943
80a0551 H. nanophasma Neunzig, 1997 (Homoeosoma) [NEW]
80a0552 H. uncanalis (Hulst, 1886) (Nephopteryx) [NEW]
80a0553 H. stypticella Grote, 1878 (Homoeosoma) 5936
80a0554 H. striatellum Dyar, 1905 (Homoeosoma) 5937
breviplicitum Heinrich, 1956 (Homoeosoma)
imitator Heinrich, 1956 (Homoeosoma) *[5940]*
80a0555 H. asylonnastes Goodson & Neunzig, 1993 (Homoeosoma) [NEW]
80a0556 H. oslarellum Dyar, 1905 (Homoeosoma) 5938
80a0557 H. parvalbum Blanchard & Knudson, 1985 (Homoeosoma) [NEW]
80a0558 H. oxycercus Goodson & Neunzig, 1993 (Homoeosoma) [NEW]
80a0559 H. illuviella Ragonot, 1888 (Homoeosoma) 5939
candidella Hulst, 1888 (Homoeosoma)
80a0560 H. emendator Heinrich, 1956 (Homoeosoma) [NEW]
80a0561 H. albescentella Ragonot, 1887 (Homoeosoma) 5941
elongellum Dyar, 1903 (Homoeosoma)
80a0562 H. impressalis Hulst, 1886 (Homoeosoma) 5942
80a0563 H. deceptorium Heinrich, 1956 (Homoeosoma) 5944
80a0564 H. ammonastes Goodson & Neunzig, 1993 (Homoeosoma) [NEW]
80a0565 H. pedionnastes Goodson & Neunzig, 1993 (Homoeosoma) [NEW]
80a0566 H. eremophasma Goodson & Neunzig, 1993 (Homoeosoma) [NEW]
80a0567 H. ardaloniphas Goodson & Neunzig, 1993 (Homoeosoma) [NEW]

Genus PATAGONIA Ragonot & Hampson, 1901
ID INFO: Neunzig (1997).

80a0568 P. peregrinum (Heinrich, 1956) (Homoeosoma) 5945

Genus UNADILLA Hulst, 1890
ID INFO: Neunzig (1997).
STRYMAX Dyar, 1914

80a0569 U. erronella (Zeller, 1881) (Homoeosoma) [NEW]
bipunctella (Hampson, 1901) (Ephestia)
dorae (Dyar, 1914) (Strymax)
nasutella Hulst, 1890 (Unadilla) *[5948]*
pyllis (Dyar, 1914) (Strymax)
ubacensis (Zeller, 1881) (Homoeosoma)
80a0570 U. maturella (Zeller, 1881) (Homoeosoma) [NEW]
floridensis Heinrich, 1956 (Unadilla) *[5947]*

Genus PHYCITODES Hampson, 1917
ID INFO: Neunzig (1997).
ROTRUDA Heinrich, 1956

80a0571 P. mucidella (Ragonot, 1887) (Homoeosoma) [NEW]
NOTE: Neunzig (1997) raised both *mucidella* and *reliquellum* from subspecies of *P. albatella*, treating them as separate western and eastern species, respectively, based on slight maculation and size differences. "True" *P. albatella* does not occur in NA. We synonymize *reliquellum* with *P. mucidella* as there are no clear structural or genetic differences among populations (n. syn.).
albatella of authors; (not Ragonot, 1887) (Homoeosoma) misappl. *[5946]*
reliquellum (Dyar, 1904) (Homoeosoma) N. SYN.

Tribe CABNIINI Roesler, 1968
ID INFO: Neunzig (1990).

Genus CABNIA Dyar, 1904

80a0572 C. myronella Dyar, 1904 (Cabnia) 6037

Tribe ANERASTIINI Ragonot, 1885
ID INFO: Shaffer (1968).
NOTE: Horak (2003) placed Peoriini Hulst, 1890 in synonymy with Anerastiini.

Genus BARBERIA Dyar, 1905

80a0573 B. affinitella Dyar, 1905 (Barberia) 6036

Genus ANERASTIA Hübner, [1825]
PRINANERASTRIA Hampson, 1918

80a0574 A. lotella (Hübner, [1813]) (Tinea) 6038
[illegible]miniosella (Zincken, 1818) (Phycis)

Genus COENOCHROA Ragonot, 1887
ALAMOSA Ragonot & Hampson, 1901
PETALUMA Hulst, 1888

80a0575 C. californiella Ragonot, 1887 (Coenochroa) 6039
inspergella Ragonot, 1887 (Coenochroa)
miasticta (Hampson, 1918) (Metacrateria)
monomacula Dyar, 1914 (Coenochroa)
80a0576 C. illibella (Hulst, 1887) (Anerastia) 6040
piperatella (Ragonot & Hampson, 1901) (Alamosa)
puricostella Ragonot, 1887 (Coenochroa)
80a0577 C. bipunctella (Barnes & McDunnough, 1913) (Alamosa) 6041

Genus PEORIA Ragonot, 1887
ID INFO: Shaffer (1968); also Shaffer (1976, 2003), Blanchard (1980).
ALTOONA Hulst, 1888
AURORA Ragonot, 1887
CALERA Ragonot, 1888
CAYUGA Hulst, 1888
CEARA Ragonot, 1888
CHIPETA Hulst, 1892
CHIPOTA; Hulst, [1903] missp.
OLLIA Dyar, 1904
OSCEOLA Hulst, 1891
STATINA Ragonot, 1887
TRIVOLUSIA Dyar, [1903]
VOLUSIA Hulst, 1890
WEKIVA Hulst, 1890

80a0578 P. longipalpella (Ragonot, 1887) (Aurora) 6042
80a0579 P. bipartitella Ragonot, 1887 (Peoria) 6043
roseopennella (Hulst, 1890) (Volusia)
80a0580 P. tetradella (Zeller, 1872) (Anerastia) 6044
80a0581 P. opacella (Hulst, 1887) (Anerastia) 6045
dichroeella (Ragonot, 1889) (Saluria)
80a0582 P. floridella Shaffer, 1968 (Peoria) 6046
80a0583 P. padreella Blanchard, 1980 (Peoria) [NEW]
80a0584 P. rostrella (Ragonot, 1887) (Saluria) 6047
80a0585 P. gematella (Hulst, 1887) (Spermatophthora) emend. 6048
NOTE: The original misspelling "*gemmatilla*" has been widely used, but the correction to *gematella* was made in an addendum by Hulst, included with the original paper, so the correction is deemed valid according to the ICZN. It was further misspelled as "*gemmatella*" by McDunnough (1938).
bistriatella (Hulst, 1890) (Cayuga)
gemmatella; (McDunnough, 1939) (Pectinigeria) missp.
gemmatilla; (Hulst, 1887) (Spermatophthora) orig. missp.
pamponerella (Dyar, 1908) (Pectinigera [sic])
80a0586 P. roseotinctella (Ragonot, 1887) (Statina) 6049
bifasciella (Hampson, 1901) (Statina)
punctilimbella (Ragonot, 1888) (Calera)
80a0587 P. johnstoni Shaffer, 1968 (Peoria) 6050
80a0588 P. santaritella (Dyar, 1904) (Ollia) 6051
80a0589 P. holoponerella (Dyar, 1908) (Ollia) 6052
80a0590 P. approximella (Walker, 1866) (Eurhodope) 6053
cremoricosta (Hampson, 1918) (Hypsotropa)
[illegible]ematica (Zeller, 1872) (Anerastia)
[illegible]seatella (Packard, 1873) (Nephopteryx)
80a0591 P. luteicostella (Ragonot, 1887) (Hypsotropa) 6054
nodosella (Hulst, 1890) (Wekiva)
perlepidella (Hulst, 1892) (Chipeta)
perlepidellus (Smith, 1891) (Osceola)
80a0592 P. punctata Shaffer, 1976 (Peoria) 6055
80a0593 P. gaudiella (Hulst, 1890) (Statina) 6056
NOTE: This species was treated in the "unplaced" section of Shaffer (1968); the type is damaged.
80a0594 P. insularis Shaffer, 2003 (Peoria) [NEW]

Genus "TOLIMA" Ragonot, 1888 PROV. PL.

80a0595 T. cincaidella Dyar, 1904 (Tolima) mispl. 6057
NOTE: Misplaced, does not belong in Anerastiini (as Peoriini Hulst, 1890) (Shaffer 1968).

Genus NAVASOTA Ragonot, 1887

80a0596 N. hebetella Ragonot, 1887 (Navasota) 6058

Genus ANACOSTIA Shaffer, 1968

80a0597 A. tribulella Shaffer, 1968 (Anacostia) 6059

Genus ARIVACA Shaffer, 1968

Arivaca pimella group Shaffer, 1968

80a0598 A. pimella (Dyar, 1906) (Poujadia) 6060
80a0599 A. linella Shaffer, 1968 (Arivaca) 6061

Arivaca ostreella group Shaffer, 1968

80a0600 A. ostreella (Ragonot, 1887) (Saluria) 6062
discostrigella (Dyar, 1904) (Peoria)
80a0601 A. poohella Shaffer, 1968 (Arivaca) 6063

Arivaca albidella group Shaffer, 1968

80a0602 A. albidella (Hulst, 1900) (Peoria) 6064
80a0603 A. artella Shaffer, 1968 (Arivaca) 6065

Arivaca albicostella group Shaffer, 1968

80a0604 A. albicostella (Grossbeck, 1917) (Calera) 6066

Genus ATASCOSA Hulst, 1890
EUMOOREA Dyar, 1917

80a0605 A. glareosella (Zeller, 1872) (Anerastia) 6067
albocostella (Hulst, 1900) (Maricopa)
bicolorella Hulst, 1890 (Atascosa)
chejelis (Dyar, 1919) (Poujadia)
80a0606 A. heitzmani Shaffer, 1980 (Atascosa) [NEW]

Genus HOMOSASSA Hulst, 1890

80a0607 H. ella (Hulst, 1887) (Ephestia) 6068
80a0608 H. platella Shaffer, 1968 (Homosassa) 6069
80a0609 H. incudella Shaffer, 1968 (Homosassa) 6070
80a0610 H. blanchardi Shaffer, 1976 (Homosassa) 6071

Genus REYNOSA Shaffer, 1968

80a0611 R. floscella (Hulst, 1890) (Atascosa) 6072

Genus GOYA Ragonot, 1888
AROPOTHOURES; Munroe, 1983 missp.
ATOPOTHOURES Blanchard, 1975

80a0612 G. stictella (Hampson, 1918) (Saluria) 6073
80a0613 G. ovaliger (Blanchard, 1975) (Atopothoures) 6074

Genus UINTA Hulst, 1888
ID INFO: Fernald (1896).

80a0614 U. oreadella Hulst, 1888 (Uinta) 6075

Subfamily EPIPASCHIINAE Meyrick, 1884
ID INFO (partial): Holland & Schaus (1925), Solis (1993).

Genus MACALLA Walker, [1859]
ARADRAPHA Walker, [1866]
MOCHLOCERA Grote, 1876
PSEUDOMACALLA Dognin, 1908

80a0615 M. thyrsisalis Walker, [1859] (Macalla) 5575
mixtalis (Walker, [1866]) (Aradrapha)
80a0616 M. phaeobasalis Hampson, 1916 (Macalla) 5576
80a0617 M. zelleri (Grote, 1876) (Mochlocera) 5579

Genus "MACALLA" Walker, [1859] PROV. PL.

80a0618 M. glastianalis Schaus, 1922 (Macalla) mispl. [NEW]
NOTE: This species, collected in TX in the 1970s by Ed Knudson, was first reported from NA by Scholtens & Solis (2015). It is misplaced and requires a new genus.

Genus EPIPASCHIA Clemens, 1860

80a0619 E. superatalis Clemens, 1860 (Epipaschia) 5577
borealis (Grote, 1873) (Deuterollyta)
olivalis (Hulst, 1886) (Tetralopha)

Genus CACOZELIA Grote, 1878

80a0620 C. basiochrealis Grote, 1878 (Cacozelia) 5580
80a0621 C. interruptella (Ragonot, 1888) (Epipaschia) 5586
dentilineella (Hulst, [1901] 1900) (Jocara)
80a0622 C. elegans (Schaus, 1912) (Pococera) 5587
neotropica (Amsel, 1956) (Tioga)
80a0623 C. pemphusalis (Druce, 1899) (Pococera) [NEW]
albomedialis (Barnes & Benjamin, 1924) (Epipaschia) *[5578]*

Genus MILGITHEA Schaus, 1922

80a0624 M. alboplagialis (Dyar, 1905) (Cacozelia) 5581
80a0625 M. trilinealis (Hampson, 1906) (Jocara) [NEW]
trilinearis; Solis, 1993 (Milgithea) missp.

Genus TORIPALPUS Grote, 1878
YUMA Hulst, 1889

80a0626 T. breviornatalis Grote, 1878 (Toripalpus) 5584
80a0627 T. trabalis Grote, 1881 (Toripalpus) 5585
adulatalis Hulst, 1887 (Toripalpus)

Genus DEUTEROLLYTA Lederer, 1863
AJACANIA Schaus, 1925
AJOCARA Schaus, 1925
OEDOMIA Dognin, 1906
WINONA Hulst, 1888

80a0628 D. majuscula Herrich-Schäffer, 1871 (Deuterollyta) [NEW]
ferrifusalis (Hampson, 1906) (Jocara)
incrustalis (Hulst, 1887) (Toripalpus) *[5582]*
infectalis Möschler, 1890 (Deuterollyta)
musettalis (Schaus, 1934) (Jocara)
obscuralis (Schaus, 1912) (Jocara)
perseella (Barnes & McDunnough, 1913) (Jocara) *[5583]*

Genus ONEIDA Hulst, 1889
ID INFO: Solis (1991).

80a0629 O. lunulalis (Hulst, 1887) (Toripalpus) 5588
80a0630 O. luniferella Hulst, 1895 (Oneida) 5589
diploa Dyar, 1920 (Oneida)
pallidalis Barnes & Benjamin, 1924 (Oneida)
80a0631 O. grisiella Solis, 1991 (Oneida) [NEW]

Genus TALLULA Hulst, 1888

80a0632E T. atramentalis (Lederer, 1863) (Hemimatia) EXCL. 5590
NOTE: Records of this species in NA refer to *Phidotricha erigens*, per Scholtens & Solis (2015).
80a0633 T. atrifascialis (Hulst, 1886) (Tetralopha) 5591
80a0634 T. watsoni Barnes & McDunnough, 1917 (Tallula) 5592
80a0635 T. baboquivarialis Barnes & Benjamin, 1926 (Tallula) 5593
80a0636 T. beroella (Schaus, 1912) (Pococera) [NEW]
bunniotis (Dyar, 1913) (Tioga)
80a0637 T. fieldi Barnes & McDunnough, 1911 (Tallula) 5594

Genus PHIDOTRICHA Ragonot, [1889]
EUTRICHOCERA Hampson, 1904
JOCARULA Dyar, 1925

80a0638 P. erigens Ragonot, [1889] (Phidotricha) [NEW]
NOTE: This species has traditionally been reported under the name *Tallula atramentalis*, a misidentification.
dryospila (Meyrick, 1936) (Auradisa)

80a0639 P. insularella (Ragonot, [1889]) (Tetralopha) [NEW]
NOTE: Added to the NA fauna based on FSCA specimens from Dry Tortugas, FL; compared to USNM material by JEH.
paurolepidalis (Hampson, 1904) (Eutrichocera)

Genus POCOCERA Zeller, 1848
AFRA Ghesquière, 1942
ATTACAPA Hulst, 1889
AURADISA Walker, [1866]
BENTA Walker, 1863
HEMIMATIA Lederer, 1863
KATONA Hulst, 1888
LANTHAPHE Clemens, 1860
LOMA Hulst, 1888
SALUDA Hulst, 1888
TETRALOPHA Zeller, 1848
TIOGA Hulst, 1888
WANDA Hulst, 1888

80a0640 P. robustella (Zeller, 1848) (Tetralopha) 5595
diluculella (Grote, 1880) (Tetralopha)
80a0641 P. scortealis (Lederer, 1863) (Hemimatia) 5596
slossonii (Hulst, 1895) (Benta)
80a0642 P. melanogrammos (Zeller, 1872) (Tetralopha) 5597
80a0643 P. texanella Ragonot, 1888 (Pococera) 5598
80a0644 P. callipeplella (Hulst, 1888) (Tetralopha) 5599
80a0645 P. speciosella (Hulst, [1901] 1900) (Benta) 5600
80a0646 P. floridella (Hulst, [1901] 1900) (Benta) 5601
80a0647 P. subcanalis (Walker, 1863) (Nephopteryx) 5602
querciella (Barnes & McDunnough, 1913) (Tetralopha)
taleolalis (Hulst, 1886) (Toripalpus)
80a0648 P. maritimalis (McDunnough, 1939) (Tetralopha) 5603
80a0649 P. militella (Zeller, 1848) (Tetralopha) 5604
platanella (Clemens, 1860) (Lanthape)
80a0650 P. aplastella (Hulst, 1888) (Tioga) 5605
80a0651 P. asperatella (Clemens, 1860) (Lanthaphe) 5606
80a0652 P. vacciniivora (Munroe, 1963) (Tetralopha) 5607
80a0653 P. expandens (Walker, 1863) (Benta) 5608
clemensalis (Dyar, 1905) (Tetralopha)
nephelotella (Hulst, 1888) (Loma)
80a0654 P. spaldingella (Barnes & Benjamin, 1924) (Tetralopha) 5609
80a0655 P. dolorosella (Barnes & Benjamin, 1924) (Tetralopha) 5610
80a0656 P. provoella (Barnes & Benjamin, 1924) (Tetralopha) 5611
80a0657 P. arizonella (Barnes & Benjamin, 1924) (Tetralopha) 5612
80a0658 P. thoracicella (Barnes & Benjamin, 1924) (Tetralopha) 5613
80a0659 P. griseella (Barnes & Benjamin, 1924) (Tetralopha) 5614
80a0660 P. fuscolotella (Ragonot, 1888) (Tetralopha) 5615
nigricans (Hulst, 1900) (Salebria) *[5778]*
80a0661 P. tiltella (Hulst, 1888) (Wanda) 5616
80a0662 P. humerella (Ragonot, 1888) (Tetralopha) 5617
formosella (Hulst, 1900) (Tetralopha)
80a0663 P. gelidalis (Walker, [1866]) (Auradisa) [NEW]
irrorata Schaus, 1912 (Pococera)
subalbella (Walker, 1866) (Myelois)
tertiella Dyar, 1905 (Pococera) *[5618]*
80a0664 P. baptisiella (Fernald, 1887) (Tetralopha) 5619
80a0665 P. euphemella (Hulst, 1888) (Katona) 5620
melanographella Ragonot, 1888 (Pococera)
variella Ragonot, 1888 (Pococera)

Genus COENODOMUS Walsingham, 1889 (excl.)

80a0666E C. hockingii Walsingham, 1889 (Coenodomus) EXCL. 5621
NOTE: The synonym *singularis* was supposedly described from ME, but that is erroneous; this species is not known from NA (Scholtens & Solis 2015).
singularis (Neumoegen, 1893) (Dyaria) (excl.)

Subfamily PYRALINAE Latreille, 1809

Tribe PYRALINI Latreille, 1809

Genus PYRALIS Linnaeus, 1758
ALETES Rafinesque, 1815
ASOPIA Treitschke, 1828
CEROPSINA Rafinesque, 1815
EUTRICHODES Warren, 1891
SACATIA Walker, 1863
SPYRELLA Rafinesque, 1815

80a0667 P. farinalis (Linnaeus, 1758) (Phalaena) I 5510
NOTE: Introduced from Eurasia (Lafontaine & Troubridge 1998). All subspecies were synonymized by Shaffer & Solis (in Heppner 1995a).
domesticalis (Zeller, 1847) (Asopia)
erecta (Fourcroy, 1785) (Phalaena)
farinatus (Haworth, 1803) (Crambus)
fraterna Butler, 1879 (Pyralis)
infumata Rebel, 1940 (Pyralis)
marianii Hartig, 1951 (Pyralis)
meridionalis Schmidt, 1934 (Pyralis)
orientalis Amsel, 1961 (Pyralis)
sardoplumbea Schawerda, 1936 (Pyralis)
tenerifensis Rebel, 1906 (Pyralis)
80a0668 P. manihotalis Guenée, 1854 (Pyralis) H/I 5515
achatina Butler, 1877 (Pyralis)
centripunctalis (Gaede, 1916) (Endotricha)
compsobathra Meyrick, 1932 (Pyralis)
despectalis Walker, [1866] (Pyralis)
gerontesalis Walker, 1859 (Pyralis)
gerontialis; (Meyrick, 1884) (Asopia) emend.
haematinalis (Saalmüller, 1880) (Asopia)
ingentalis Caradja, 1927 (Pyralis)
laudatella (Walker, 1863) (Sacatia)
miseralis Walker, [1866] (Pyralis)
pupalis Strand, 1919 (Pyralis)
vetustalis Walker, 1859 (Pyralis)

Genus AGLOSSA Latreille, [1797]
AGRIOPE Ragonot, 1894
CROCALIA Ragonot, [1892]
EUCLITA Hübner, [1825]
ORYCTOCERA Ragonot, 1891

80a0669 A. costiferalis (Walker, 1866) (Pyralis) 5511
costigeralis (Walker, [1866]) (Pyralis)
80a0670 A. disciferalis (Dyar, 1908) (Pyralis) 5512
80a0671 A. electalis Hulst, 1886 (Aglossa) 5513
80a0672 A. cacamica (Dyar, 1913) (Pyralis) 5514
80a0673 A. pinguinalis (Linnaeus, 1758) (Phalaena) I 5516
NOTE: Introduced from Europe.
guicciardii Constantini, 1922 (Aglossa)
marmoratella (Villers, 1789) (Phalaena)
marmorella (Goeze, 1783) (Phalaena)
maroccana Schmidt, 1934 (Aglossa)
pinguedinis (Retzius, 1783) (Phalaena)
pinguiculatus (Haworth, 1809) (Crambus)
pinguis (Fabricius, 1799) (Crambus)
streatfieldii Curtis, 1833 (Aglossa)
80a0674 A. caprealis (Hübner, [1809]) (Pyralis) I 5517
NOTE: Introduced from Europe (Lafontaine & Troubridge 1998).
aenalis (Costa, 1836) (Pyralis)
capreolatus (Haworth, 1811) (Crambus)
domalis Guenée, 1854 (Aglossa)
enthealis (Hulst, 1886) (Tetralopha)
incultella (Walker, 1866) (Acrobasis)
80a0675 A. cuprina Zeller, 1872 (Aglossa) 5518
80a0676 A. acallalis Dyar, 1908 (Aglossa) 5519
80a0677 A. baba Dyar, 1914 (Aglossa) 5520
80a0678 A. gigantalis Barnes & Benjamin, 1925 (Aglossa) 5521
80a0679 A. furva Heinrich, 1931 (Aglossa) 5522
80a0680 A. oculalis Hampson, 1906 (Aglossa) 5523

Genus HYPSOPYGIA Hübner, [1825]
BEJUDA Walker, [1866]
BLEONE Ragonot, 1890
BUZALA Walker, 1863
CISSE Walker, 1863

DOLICHOMIA Ragonot, 1891
HERCULIA Walker, 1859
OCRASA Walker, [1866]
ORTHOPYGIA Ragonot, 1890
PARASOPIA Möschler, 1890
PSEUDASOPIA Grote, 1873

80a0681 H. costalis (Fabricius, 1775) (Phalaena) I 5524
NOTE: Introduced from Europe.
fimbrialis ([Denis & Schiffermüller], 1775) (Pyralis)
hyllalis (Walker, 1859) (Pyralis)
lugens Rebel, 1903 (Hypsopygia)
purpurana (Thunberg, 1784) (Tortrix)
rubrocilialis (Staudinger, 1870) (Asopia)
syriaca Zerny, 1914 (Hypsopygia)

80a0682 H. planalis (Grote, 1880) (Asopia) 5525
anniculalis (Hulst, 1886) (Asopia) emend.
enniculalis; (Hulst, 1886) (Asopia) orig. missp.
occidentalis (Hulst, 1886) (Asopia)

80a0683 H. intermedialis (Walker, 1862) (Pyralis) 5526
sodalis (Walker, 1869) (Pyralis)
squamealis (Grote, 1873) (Pseudasopia)

80a0684 H. phoezalis (Dyar, 1908) (Herculia) 5527

80a0685 H. cohortalis (Grote, 1878) (Asopia) 5528
florencealis (Blackmore, 1920) (Herculia)

80a0686 H. thymetusalis (Walker, 1859) (Botys) 5529
NOTE: Transferred to *Hypsopygia*, with the synonymy of *Herculia* by Solis & Shaffer (1999).
devialis (Grote, 1875) (Asopia)

80a0687 H. binodulalis (Zeller, 1872) (Asopia) 5530

80a0688 H. nostralis (Guenée, 1854) (Pyralis) [NEW]
dissimilalis (Möschler, 1890) (Parasopia)
psammioxantha (Dyar, 1917) (Herculia)
sordidalis (Barnes & McDunnough, 1913) (Herculia) [5531]
tenuis (Butler, 1880) (Pyralis)
venezuelensis (Amsel, 1956) (Herculia)

80a0689 H. olinalis (Guenée, 1854) (Pyralis) 5533
himonialis (Zeller, 1872) (Asopia)
infimbrialis (Dyar, 1908) (Herculia) [5532]
trentonalis (Lederer, 1863) (Asopia)

Tribe HYPOTIINI Chapman, 1902

NOTE: *Arispe* and *Neodavisia* share characters with *Hypotia* Zeller and *Arsenaria* Ragonot: the females have one frenular bristle, the forewing costa lacks maculae, and the forewing postmedial line is rounded anteriad and deeply indented on the anal fold. These characters are constant among examined hypotiine species, and the first two differentiate them from Pyralini.

Genus ARISPE Ragonot, 1891
USCODYS Dyar, 1908

80a0690 A. cestalis (Hulst, 1886) (Anerastia) 5534
atalis (Dyar, 1908) (Uscodys) [5535]

Genus NEODAVISIA Barnes & McDunnough, 1914
DAVISIA Barnes & McDunnough, 1913

80a0691 N. singularis (Barnes & McDunnough, 1913) (Davisia) 5536

80a0692 N. melusina Ferguson, Blanchard & Knudson, 1984 (Neodavisia) [NEW]

77. Family CRAMBIDAE Latreille, 1810 (snout moths and allies)

by James E. Hayden and Brian G. Scholtens

In NA, Crambidae are small to medium-sized moths ranging from about 8 mm wingspan (small *Elophila tinealis*) up to 55 mm (females of *Epina dichromella* and *Palpita flegia*). Forewing colors and patterns are highly variable and include some of the most striking moths in NA. Hindwings are mostly lightly marked gray to white, often with one irregular band, but some have complex patterns (e.g., Acentropinae).

Pyraloidea are separated from all other Lepidoptera by the presence of abdominal tympana on sternite 2 (Munroe 1972a, Solis 2007). Characters that diagnose Crambidae from Pyralidae include: the structure of the tympanal organs and presence of the praecinctorium; a scale ring between the antenna and eye (shared with Phycitinae); and several characters of larval chaetotaxy such as the loss of setae in the A8 SV and A9 L groups. Crambidae was recognized as a distinct family by Börner (1925). It was recognized only informally as “Crambiformes” by Munroe (1972a, b, 1973b, 1976a, b), then subsequently restored as a valid family by Minet (1982), though Munroe (in Hodges et al. 1983) persisted in following his previous arrangement. Molecular studies (e.g., Regier et al. 2012a) have corroborated the fundamental split, and their findings, wherein Crambidae is treated as a valid family, are followed herein.

The feeding habits of crambids are very diverse, but the family includes major radiations on monocots (Crambinae, Schoenobiinae, Lathrotelinae, and the extralimital Midilinae) and Brassicales (Glaphyriinae *sensu lato* including evergestines and dichogamines). Acentropinae is the largest radiation of Lepidoptera that has aquatic larvae. Feeding behaviors include leaf tying and webbing, boring in any plant tissue, detritivory, and feeding above or below ground. Species of importance in NA are mostly non-native introductions or pests, such as *Ostrinia nubilalis*, the European Corn Borer.

There are ten subfamilies in NA, ranging in diversity from just two or four species (Lathrotelinae, Musotiminae) to more than 250 (Spilomelinae). The subfamily arrangement here follows Leger et al. (2020). Scholtens & Solis (2015) updated the NA checklist, which incorporates numerous much-needed changes, so the updates in the present contribution are relatively minor. The most recent higher-level changes have been to solidify the position of Lathrotelinae (Leger et al. 2020), the division of the Spilomelinae and Pyraustinae into tribes (Mally et al. 2019), and some reclassification in Crambinae with molecular evidence (Leger et al. 2019). Dissection of type material by Landry (2016) has resulted in the reinstatement of some synonyms to valid species. Most of the subfamilies of Crambidae have been treated by MONA fascicles (Munroe 1972a, b, 1973, 1976a, b) except Spilomelinae, Lathrotelinae, Schoenobiinae, and Crambinae. The most recent relevant references for Spilomelinae are Landry (2016), Mally et al. (2019), and the many Munroe papers cited below; for Lathrotelinae, Hayden (2013b); for Schoenobiinae, Heinrich (1937) and Martinez (2010); and for the Crambinae, Landry (1995), Léger et al. (2019), and the various Klots papers cited below. Nuss et al. (2022) have developed and maintain the online GlobIZ website compiling taxonomic information about global species in the Pyraloidea.

The Crambidae comprises 10,094 species classified into 1,015 genera (Nuss et al. 2022). Species occur on all continents except Antarctica, and they are most diverse in the tropics. In contrast to the tropical fauna, Nearctic crambid diversity is well described, with this list containing 884 species in NA. Taxa that most likely contain undescribed species are generally those not already treated in the MONA series, such as Spilomelinae and Crambinae: Ancylolomiini.

Subfamily PYRAUSTINAE Meyrick, 1890

Tribe PORTENTOMORPHINI Amsel, 1956
ID INFO: Munroe (1976b).

Genus PORTENTOMORPHA Amsel, 1956
APOECETES Munroe, 1956

80a0693 P. xanthialis (Guenée, 1854) (Botys) 5078
incalis (Snellen, [1875]) (Botys)
rosealis (Möschler, 1890) (Botys)
superbalis (Walker, [1866]) (Botys)

Tribe PYRAUSTINI Meyrick, 1890
ID INFO: Munroe (1976a, 1976b).

Genus MUNROEODES Amsel, 1957
MUNROEIA Amsel, 1956

80a0694 M. thalesalis (Walker, 1859) (Botys) 4934

Genus SAUCROBOTYS Munroe, 1976

80a0695 S. fumoferalis (Hulst, 1886) (Botis) 4935
80a0696 S. futilalis (Lederer, 1863) (Botys) 4936
ssp. a. futilalis (Lederer, 1863) (Botys)
erectalis (Grote, 1876) (Botis)
ssp. b. inconcinnalis (Lederer, 1863) (Botys)
crocotalis (Grote, 1881) (Botis)
festalis (Hulst, 1886) (Botis)

Genus SARABOTYS Munroe, 1964

80a0697 S. cupreicostalis (Dyar, 1913) (Phlyctaenodes) [NEW]

Genus NASCIA Curtis, 1835

80a0698 N. acutellus (Walker, 1866) (Crambus) 4937
venalis (Grote, 1878) (Botis)

Genus SCLEROCONA Meyrick, 1890

80a0699 S. acutellus (Eversmann, 1842) (Chilo) I [NEW]
NOTE: This Eurasian species was reported from NA by Wagner et al. (2003).
ssp. a. acutellus (Eversmann, 1842) (Chilo)
cilialis (Herrich-Schäffer, 1849) (Duponchelia)
tincticostellus (Walker, 1863) (Crambus)

Genus EPICORSIA Hübner, 1818

80a0700 E. oedipodalis (Guenée, 1854) (Botys) 4938
butyrosa (Butler, 1878) (Botys)

Genus PSEUDOPYRAUSTA Amsel, 1956

80a0701 P. marginalis (Dyar, 1914) (Nacoleia) [NEW]
80a0702 P. santatalis (Barnes & McDunnough, 1914) (Blepharomastix) 4939

Genus OENOBOTYS Munroe, 1976

80a0703 O. vinotinctalis (Hampson, 1895) (Pionea) 4940
80a0704 O. texanalis Munroe & Blanchard, 1976 (Oenobotys) 4941

Genus TRIUNCIDIA Munroe, 1976

80a0705 T. eupalusalis (Walker, 1859) (Botys) 4942

Genus CROCIDOPHORA Lederer, 1863
CROCIDOSEMA; Lederer, 1863 missp.
MONOCROCIS Warren, 1895

80a0706 C. pustuliferalis Lederer, 1863 (Crocidophora) 4943
80a0707 C. serratissimalis Zeller, 1872 (Crocidophora) 4944
subdentalis (Grote, 1873) (Botis)
80a0708 C. tuberculalis Lederer, 1863 (Crocidophora) 4945

Genus OSTRINIA Hübner, [1825]
ID INFO: Munroe (1976a, 1976b), also Yang et al. (2021).
EUPOLEMARCHA Meyrick, 1937
MICRACTIS Warren, 1892
ZEAPHAGUS Agenjo, 1952

Ostrinia obumbratalis group Yang, Plotkin, Landry, Storer & Kawahara, 2021

80a0709 O. obumbratalis (Lederer, 1863) (Botys) 4947
ainsliei (Heinrich, 1919) (Pyrausta)
obliteralis (Walker, [1866]) (Botys)
80a0710 O. multispinosa Yang, 2021 (Ostrinia) [NEW]
80a0711 O. marginalis (Walker, [1866]) (Scopula) 4948
stenopteralis (Grote, 1878) (Botis)

Ostrinia penitalis group Yang, Plotkin, Landry, Storer & Kawahara, 2021

80a0712 O. penitalis (Grote, 1876) (Botis) 4946
ssp. a. penitalis (Grote, 1876) (Botis)
nelumbialis (Smith, 1890) (Botis)
pyraustalis (Dyar, 1925) (Tholeria)

Ostrinia nubilalis group Yang, Plotkin, Landry, Storer & Kawahara, 2021

80a0713 O. nubilalis (Hübner, [1796]) (Pyralis) I 4949
NOTE: This important pest species, known as the European Corn Borer, was introduced from Europe, probably first to MA between 1909 and 1914 (Munroe 1976a).
ssp. a. nubilalis (Hübner, [1796]) (Pyralis)
appositalis (Lederer, 1858) (Botys)
fanalis (Costantini, 1923) (Pyrausta)
flava (Dufrane, 1930) (Pyrausta)
fuscalis (Romaniszyn, 1933) (Pyrausta)
glabralis (Haworth, 1803) (Pyralis)
insignis (Skala, 1928) (Pyrausta)
margarita (Skala, 1928) (Pyrausta)
minor (Dufrane, 1930) (Pyrausta)
paulalis (Fuchs, 1900) (Botis)
rubescens (Krulikovsky, 1928) (Pyrausta)
silacealis (Hübner, [1796]) (Pyralis)

Genus FUMIBOTYS Munroe, 1976

80a0714 F. fumalis (Guenée, 1854) (Ebulea) 4950
badipennis (Grote, 1873) (Botis)
orasusalis (Walker, 1859) (Scopula)

Genus PERISPASTA Zeller, 1876

80a0715 P. caeculalis Zeller, 1876 (Perispasta) 4951
immixtalis Grote, 1881 (Perispasta)

Genus ANANIA Hübner, 1823
ID INFO: Munroe (1976a); also Yang et al. (2012).
ALGEDONIA Lederer, 1863
AMETASIA Martin, 1986
EBULEA Guenée, in: Doubleday, [1849]
ENNYCHIA Treitschke, 1828
ETHIOBOTYS Maes, 1997
EURRHYPARA Hübner, [1825]
MUTUURAIA Munroe, 1976
NEALGEDONIA Munroe, 1976
OPSIBOTYS Warren, 1890
PALPITA Hübner, 1806
PERINEPHELA Hübner, [1825]
PHLYCTAENIA Hübner, [1825]
POLYCTAENIA Hübner, [1826]
PRONOMIS Munroe & Mutuura, 1968
PROTEURRHYPARA Munroe & Mutuura, 1969
TENEROBOTYS Munroe & Mutuura, 1971
TRICHOVALVA Amsel, 1956
UDONOMEIGA Mutuura, 1954

80a0716 A. hortulata (Linnaeus, 1758) (Phalaena) I 4952
NOTE: Introduced from Eurasia, first found in NS 1907, and later found in western NA in BC in 1977 (Gillespie & Gillespie 1982).
crassipunctata (Dufrane, 1957) (Eurrhypara)
dissoluta (Skala, 1928) (Eurrhypara)
flavicauda (Retzius, 1783) (Phalaena)
minor (Dufrane, 1957) (Eurrhypara)
urticata (Linnaeus, 1761) (Phalaena)
80a0717 A. tertialis (Guenée, 1854) (Ebulea) [NEW]
coronata of authors; (not Hufnagel, 1767) (Phalaena) misappl. *[4953]*
NOTE: *Anania coronata* was recently recognized as being strictly Palaearctic (Yang et al. 2012). Nearctic material refers to *A. tertialis*, *A. plectilis*, and *A. tennesseensis*; we place the name here as a misapplication of *A. tertialis*, the most widespread of those species.
syringicola (Packard, 1870) (Botys)
80a0718 A. plectilis (Grote & Robinson, 1867) (Botys) [NEW]
80a0719 A. tennesseensis Yang, 2012 (Anania) [NEW]
80a0720 A. quebecensis (Munroe, 1954) (Phlyctaenia) 4954
80a0721 A. leuschneri (Munroe, 1976) (Phlyctaenia) 4955
80a0722 A. extricalis (Guenée, 1854) (Botys) 4956
ssp. a. extricalis (Guenée, 1854) (Botys)
intricatalis (Lederer, 1863) (Botys)
oppilalis (Grote, 1880) (Botis)
ssp. b. dionalis (Walker, 1859) (Pionea)
beddeci (Dyar, 1913) (Pyrausta)
nisoeecalis (Walker, 1859) (Spilodes)
80a0723 A. mysippusalis (Walker, 1859) (Botys) 4957
humilalis (Lederer, 1863) (Botys)
terrealis of authors; (not Trietschke, 1829) (Botys) misappl.
NOTE: Forbes (1923) used this Palaearctic name under a previous taxonomic arrangement.
80a0724 A. funebris (Ström, 1768) (Phalaena) extralim. H/I 4958
ssp. a. glomeralis (Walker, 1859) (Ennychia)
80a0725 A. labeculalis (Hulst, 1886) (Botis) 4959

Genus APONIA Munroe, 1964
ID INFO: Bordelon & Knudson (2011b).

80a0726 A. aponianalis (Druce, 1899) (Pionea) [NEW]
NOTE: Recently discovered in NA; specimen deposited in the MGCL.

Genus HAHNCAPPSIA Munroe, 1976

80a0727 H. fordi (Capps, 1967) (Loxostege) 4960
80a0728 H. alpinensis (Capps, 1967) (Loxostege) 4961
80a0729 H. marculenta (Grote & Robinson, 1867) (Botys) 4962
80a0730 H. neomarculenta (Capps, 1967) (Loxostege) 4963
80a0731 H. pseudobliteralis (Capps, 1967) (Loxostege) 4964
80a0732 H. neobliteralis (Capps, 1967) (Loxostege) 4965
80a0733 H. jaralis (Schaus, 1920) (Phlyctaenodes) 4966
80a0734 H. mancalis (Lederer, 1863) (Botys) 4967
80a0735 H. pergilvalis (Hulst, 1886) (Botis) 4968
80a0736 H. cochisensis (Capps, 1967) (Loxostege) 4969
80a0737 H. coloradensis (Grote & Robinson, 1867) (Botys) 4970
80a0738 H. ramsdenalis (Schaus, 1920) (Phlyctaenodes) 4971
80a0739 H. huachucalis (Capps, 1967) (Loxostege) 4972
80a0740 H. mellinialis (Druce, 1899) (Epichronistis) 4973
phrixalis (Dyar, 1914) (Phlyctaenodes)

Genus ACHYRA Guenée, 1849
DOSARA Walker, 1859
EURYCREON Lederer, 1863
TRITAEA Meyrick, 1884

80a0741 A. bifidalis (Fabricius, 1794) (Phalaena) 4974
centralis (Fabricius, 1794) (Phalaena)
evanidalis (Berg, 1874) (Eurycreon)
evanidalis (Berg, 1875) (Eurycreon)
inornatalis (Walker, [1866]) (Pionea)
obsoletalis (Berg, 1874) (Eurycreon)
obsoletalis (Berg, 1875) (Eurycreon)
orbitalis of authors; (not Felder, Felder & Rogenhofer, 1875) (Phlyctaenodes) misappl.
stolidalis (Schaus, 1940) (Loxostege)
80a0742 A. rantalis (Guenée, 1854) (Nymphula) 4975
caffreii (Flint & Malloch, 1920) (Pyrausta)
collucidalis (Möschler, 1890) (Eurycreon)
communis (Grote, 1876) (Botis)
crinisalis (Walker, 1859) (Scopula)
crinitalis; (Lederer, 1863) (Botys) missp.
diotimealis (Walker, 1859) (Scopula)
intractella (Walker, 1863) (Nephopteryx)
licealis (Walker, 1859) (Botys)
murcialis (Walker, 1859) (Ebulea)
nestusalis (Walker, 1859) (Scopula)
posticata (Grote & Robinson, 1867) (Botys)
similalis of authors; (not Guenée, 1854) (Nymphula) misappl.
siriusalis (Walker, 1859) (Botys)
subfulvalis (Herrich-Schäffer, 1871) (Botys)
viscendalis (Möschler, 1890) (Botys)
80a0743 A. occidentalis (Packard, 1873) (Scopula) 4976

Genus NEOHELVIBOTYS Munroe, 1976

80a0744 N. neohelvialis (Capps, 1967) (Loxostege) 4977
80a0745 N. arizonensis (Capps, 1967) (Loxostege) 4978
80a0746 N. polingi (Capps, 1967) (Loxostege) 4979

Genus HELVIBOTYS Munroe, 1976

80a0747 H. helvialis (Walker, 1859) (Spilodes) 4980
apertalis (Walker, [1866]) (Botys)
citrina (Grote & Robinson, 1867) (Botys)
harpalis (Herrich-Schäffer, 1871) (Botys)
helvalis; Forbes, 1923 (Helvibotys) missp.
thycesalis (Walker, 1859) (Botys)
80a0748 H. pseudohelvialis (Capps, 1967) (Loxostege) 4981
80a0749 H. freemani Munroe, 1976 (Helvibotys) 4982
80a0750 H. pucilla (Druce, 1895) (Filodes) 4984
subcostalis (Dyar, 1912) (Lygropia) *[4983]*
NOTE: Accidentally listed twice in Pohl et al. (2016), as a valid species and as a synonym of *H. pucilla*.

Genus SITOCHROA Hübner, [1825]
SPILODES Guenée, 1849

80a0751 S. aureolalis (Hulst, 1886) (Eurycreon) 4985
cyralis (Druce, 1895) (Pyrausta)

80a0752 S. palealis ([Denis & Schiffermüller], 1775) (Pyralis) I [NEW]
NOTE: Recently discovered introduction from Europe, reported in NA by Passoa et al. (2008).
ssp. a. palealis ([Denis & Schiffermüller], 1775) (Pyralis)
algiralis (Allard, 1867) (Spilodes)
flaveolata (Hufnagel, 1767) (Phalaena)
selenalis (Hübner, [1796]) (Pyralis)
stigmatalis (Villers, 1789) (Phalaena)
80a0753 S. dasconalis (Walker, 1859) (Spilodes) 4986
80a0754 S. chortalis (Grote, 1873) (Eurycreon) 4987

Genus ARENOCHROA Munroe, 1976

80a0755 A. flavalis (Fernald, 1894) (Loxostege) 4988
unipunctalis (Walter, 1928) (Loxostege)

Genus XANTHOSTEGE Munroe, 1976

80a0756 X. roseiterminalis (Barnes & McDunnough, 1914) (Loxostege) 4989
80a0757 X. plana (Grote, [1883] 1882) (Prothymia) 4990

Genus SERICOPLAGA Warren, 1892

80a0758 S. externalis Warren, 1892 (Sericoplaga) 4991
maclurae (Riley, 1893) (Loxostege)

Genus URESIPHITA Hübner, [1825]
MECYNA Guenée, 1854

80a0759 U. reversalis (Guenée, 1854) (Mecyna) 4992
hilaralis (Herrich-Schäffer, 1871) (Botys)

Genus PARACORSIA Marion, 1959

80a0760 P. repandalis ([Denis & Schiffermüller], 1775) (Pyralis) I [NEW]
NOTE: A recent European introduction to NA (IN), first found in 2010, and reported by Dennehy (2017).
pallidalis (Hübner, [1796]) (Pyralis)

Genus LOXOSTEGE Hübner, [1825]
BOREOPHILA Guenée, in: Duponchel, [1845]
COSMOCREON Warren, 1892
LEIMONIA Hübner, [1825]
MARGARITIA Stephens, 1827
MAROA Barnes & McDunnough, 1914
MERIDIOPHILA Marion, 1963
PARASITOCHROA Hannemann, 1964
POLINGIA Barnes & McDunnough, 1914

80a0761 L. albiceralis (Grote, 1878) (Botis) 4993
80a0762 L. floridalis Barnes & McDunnough, 1913 (Loxostege) 4994
80a0763 L. lepidalis (Hulst, 1886) (Prorasea) 4995
80a0764 L. indentalis (Grote, 1883) (Prorasea) 4996
80a0765 L. kearfottalis Walter, 1928 (Loxostege) 4997
80a0766 L. terpnalis Barnes & McDunnough, 1918 (Loxostege) 4998
80a0767 L. unicoloralis (Barnes & McDunnough, 1914) (Maroa) 4999
80a0768 L. allectalis (Grote, 1877) (Botis) 5000
perplexalis (Fernald, 1885) (Eurycreon)
80a0769 L. typhonalis Barnes & McDunnough, 1914 (Loxostege) 5001
80a0770 L. oberthuralis Fernald, 1894 (Loxostege) 5002
80a0771 L. egregialis Munroe, 1976 (Loxostege) 5003
80a0772 L. munroealis Leraut, 2005 (Loxostege) [NEW]
NOTE: This species has been treated historically in NA as *L. sticticalis*, but Leraut (2005) recognized the Nearctic populations as distinct. "True" *L. sticticalis* is strictly Palaearctic.
sticticalis of authors; (not Linnaeus, 1761) (Phalaena) misappl. *[5004]*
80a0773 L. mojavealis Capps, 1967 (Loxostege) 5005
80a0774 L. kingi Munroe, 1976 (Loxostege) 5006
80a0775 L. annaphilalis (Grote, 1881) (Botis) 5007
80a0776 L. immerens (Harvey, 1875) (Annaphila) 5008
triumphalis Grote, 1902 (Loxostege)
80a0777 L. quaestoralis (Barnes & McDunnough, 1914) (Polingia) 5009
80a0778 L. anartalis (Grote, 1878) (Eurycreon) 5010

ssp. a. anartalis (Grote, 1878) (Eurycreon)
ssp. b. lulualis (Hulst, 1886) (Botis)
ssp. c. albertalis Barnes & McDunnough, 1918 (Loxostege)
ssp. d. saxicolalis Barnes & McDunnough, 1918 (Loxostege)
ssp. e. rainierensis Munroe, 1976 (Loxostege)

80a0779 L. ephippialis (Zetterstedt, 1839) (Botys) H 5011
dubitaria (Zetterstedt, 1839) (Psodos)
frigidalis (Guenée, 1854) (Boreophila)
scandinavialis (Guenée, 1854) (Boreophila)

80a0780 L. thallophilalis (Hulst, 1886) (Botis) emend. 5012
flavifimbrialis (Warren, 1892) (Noctuelia)
thrallophilalis; (Hulst, 1886) (Botis) orig. missp.

80a0781 L. brunneitincta Munroe, 1976 (Loxostege) 5013
80a0782 L. offumalis (Hulst, 1886) (Botis) 5014
80a0783 L. sierralis Munroe, 1976 (Loxostege) 5015
ssp. a. sierralis Munroe, 1976 (Loxostege)
ssp. b. internationalis Munroe, 1976 (Loxostege)
ssp. c. tularealis Munroe, 1976 (Loxostege)
ssp. d. sanpetealis Munroe, 1976 (Loxostege)

80a0784 L. commixtalis (Walker, [1866]) (Scopula) H 5016
indotatellus (Walker, 1866) (Crambus)
septentrionalis (Tengström, 1869) (Botys)

80a0785 L. cereralis (Zeller, 1872) (Eurycreon) 5017

Genus PYRAUSTA Schrank, 1802

ANTHOCRYPTA Warren, 1892
APLOGRAPHE Warren, 1892
AUTOCOSMIA Warren, 1892
BOTIS; Swainson, 1821 emend.
BOTYS Latreille, 1802
CINDAPHIA Lederer, 1863
HAEMATIA Hübner, 1818
HELIACA Hübner, 1806
HELIACA Hübner, 1822
HERBULA Guenée, 1854
HYALOSCIA Dognin, 1908
MARDINIA Amsel, 1952
OSTREOPHENA Sodoffsky, 1837
PANSTEGIA Hübner, [1825]
PERILYPA Hübner, [1825]
PORPHYRITIS Hübner, [1825]
PROTEROECA Meyrick, 1884
RATTANA Rose & Pajni, 1979
RHODARIA Guenée, in: Duponchel, [1845]
SCIORISTA Warren, 1890
SYLLYTHRIA Hübner, [1825]
SYNCHROMIA Guenée, 1854
THOLERIA Hübner, 1823
TRIGONUNCUS Amsel, 1952

Pyrausta demantrialis group Munroe, 1976

80a0786 P. demantrialis (Druce, 1895) (Blepharomastix) 5018
atrisquamalis Dognin, 1905 (Pyrausta)
monotonigra Amsel, 1956 (Pyrausta)

Pyrausta nexalis group Munroe, 1976

80a0787 P. nexalis (Hulst, 1886) (Botis) 5019
concinna (Warren, 1892) (Autocosmia)
80a0788 P. sartoralis Barnes & McDunnough, 1914 (Pyrausta) 5020
80a0789 P. roseivestalis Munroe, 1976 (Pyrausta) 5021
80a0790 P. zonalis Barnes & McDunnough, 1918 (Pyrausta) 5022
80a0791 P. napaealis (Hulst, 1886) (Paraedis) 5023
80a0792 P. linealis (Fernald, 1894) (Loxostege) 5024
80a0793 P. ochreicostalis Barnes & McDunnough, 1918 (Pyrausta) 5025
80a0794 P. pilatealis Barnes & McDunnough, 1914 (Pyrausta) 5026
80a0795 P. lethalis (Grote, 1881) (Botis) 5027
80a0796 P. corinthalis Barnes & McDunnough, 1914 (Pyrausta) 5028
80a0797 P. volupialis (Grote, 1877) (Botis) 5029
80a0798 P. morenalis (Dyar, 1908) (Metasia) 5030
80a0799 P. atropurpuralis (Grote, 1877) (Botis) 5031
80a0800 P. nicalis (Grote, 1878) (Stemmatophora) 5032
subnicalis (Warren, 1892) (Syllythria)
uxorculalis (Hulst, 1886) (Botis)
80a0801 P. grotei Munroe, 1976 (Pyrausta) 5033
augustalis (Grote, 1882) (Botis)
80a0802 P. signatalis (Walker, [1866]) (Rhodaria) 5034
medullalis (Snellen, 1899) (Botys)
vinulenta (Grote & Robinson, 1867) (Botys)
80a0803 P. pythialis Barnes & McDunnough, 1918 (Pyrausta) 5035
80a0804 P. inveterascalis Barnes & McDunnough, 1918 (Pyrausta) 5036
80a0805 P. inornatalis (Fernald, 1885) (Botis) 5037
rosa (Druce, 1895) (Syllythria)
80a0806 P. shirleyae Munroe, 1976 (Pyrausta) 5038
80a0807 P. coccinea Warren, 1892 (Pyrausta) 5039

Pyrausta bicoloralis group Munroe, 1976

80a0808 P. bicoloralis (Guenée, 1854) (Asopia) 5040
80a0809 P. augustalis (Felder & Rogenhofer, 1875) (Botys) 5041

Pyrausta onythesalis group Munroe, 1976

80a0810 P. onythesalis (Walker, 1859) (Botys) 5042
80a0811 P. pseudonythesalis Munroe, 1976 (Pyrausta) 5043
80a0812 P. insignitalis (Guenée, 1854) (Rhodaria) 5044
eratalis (Walker, 1859) (Botys)
largalis (Walker, 1859) (Asopia)
ordinatalis (Walker, [1866]) (Scopula)
80a0813 P. aurea (Hampson, 1913) (Pachyzancla) 5045
80a0814 P. flavibrunnea Hampson, 1913 (Pyrausta) 5046
80a0815 P. klotsi Munroe, 1976 (Pyrausta) 5047
80a0816 P. flavofascialis (Grote, 1882) (Botis) 5048
80a0817 P. cardinalis (Guenée, 1854) (Synchromia) [NEW]

Pyrausta phoenicealis group Munroe, 1976

80a0818 P. phoenicealis (Hübner, 1818) (Haematia) 5049
catenalis (Walker, [1866]) (Rhodaria)
coecilialis (Walker, 1859) (Botys)
concatenalis (Walker, [1866]) (Rhodaria)
flegialis (Walker, 1859) (Rhodaria)
heliamma (Meyrick, 1885) (Myriostephes)
juncturalis (Walker, [1866]) (Rhodaria)
noraxalis (Walker, 1859) (Rhodaria)
ocellusalis (Walker, 1859) (Rhodaria)
panopealis (Walker, 1859) (Rhodaria) [5050]
NOTE: Maes (2014) synonymized *panopealis* with *P. phoenicealis*. Specimens in the FSCA/MGCL show no consistent differences.
probalis (Walker, 1859) (Rhodaria)

Pyrausta rubricalis group Munroe, 1976

80a0819 P. rubricalis (Hübner, [1796]) (Pyralis) 5051
nescalis (Walker, 1859) (Rhodaria)
similalis (Lederer, 1863) (Botys)
80a0820 P. californicalis (Packard, 1873) (Botys) 5052
ssp. a. californicalis (Packard, 1873) (Botys)
ssp. b. sierranalis Munroe, 1976 (Pyrausta)

Pyrausta pseuderosnealis group Munroe, 1976

80a0821 P. pseuderosnealis Munroe, 1976 (Pyrausta) 5053

Pyrausta dapalis group Munroe, 1976

80a0822 P. dapalis (Grote, 1881) (Botis) 5054

Pyrausta aurata group Munroe, 1976

80a0823 P. homonymalis Munroe, 1976 (Pyrausta) 5055
submarginalis (Walker, [1866]) (Herbula)
80a0824 P. generosa (Grote & Robinson, 1867) (Botys) 5056
80a0825 P. subgenerosa Munroe, 1976 (Pyrausta) 5057
80a0826 P. orphisalis Walker, 1859 (Pyrausta) 5058
ochosalis Dyar, 1903 (Pyrausta)
80a0827 P. tuolumnalis Barnes & McDunnough, 1918 (Pyrausta) 5059

Pyrausta cespitalis group Munroe, 1976

80a0828 P. subsequalis (Guenée, 1854) (Herbula) 5060
cespitalis of authors; (not [Denis & Schiffermüller], 1775) (Pyralis) misid.
NOTE: The European name *P. cespitalis* has been used historically in NA for *P. subsequalis*; they are very similar species (Munroe 1976b).
insequalis (Guenée, 1854) (Herbula)
NOTE: The name *insequalis* has been used for this species, but it is an unnecessary replacement name. At one time, *subsequalis* Guenée, 1854 was a secondary homonym. However, with the removal of *subsequalis* Herrich-Schäffer, 1851 from *Pyrausta* to *Mecyna*, the name *subsequalis* Guenée is available.
ssp. a. subsequalis (Guenée, 1854) (Herbula)
efficitalis (Walker, [1866]) (Herbula)
graminalis (Herrich-Schäffer, 1871) (Botys)
madetesalis (Walker, 1859) (Isopteryx)
matronalis (Grote, 1875) (Botis)
repletalis (Walker, [1866]) (Herbula)
ssp. b. plagalis Haimbach, 1908 (Pyrausta)
ssp. c. petaluma Munroe, 1976 (Pyrausta)
80a0829 P. borealis Packard, 1867 (Pyrausta) [NEW]
NOTE: Treated as a subspecies of *P. subsequalis* by Munroe (1976b); raised from synonymy by Scholtens & Solis (2015).

Pyrausta tatalis group Munroe, 1976

80a0830 P. tatalis (Grote, 1877) (Botis) 5061

Pyrausta deidamialis group Munroe, 1976

80a0831 P. retidiscalis Munroe, 1976 (Pyrausta) 5062
80a0832 P. andrei Munroe, 1976 (Pyrausta) 5063

Pyrausta perrubralis group Munroe, 1976

80a0833 P. perrubralis (Packard, 1873) (Botys) 5064
ssp. a. perrubralis (Packard, 1873) (Botys)
ssp. b. saanichalis Munroe, 1951 (Pyrausta)
ssp. c. shastanalis Munroe, 1976 (Pyrausta)
80a0834 P. scurralis (Hulst, 1886) (Botis) 5065
ssp. a. scurralis (Hulst, 1886) (Botis)
postrubralis Hampson, 1899 (Pyrausta)
ssp. b. awemealis Munroe, 1976 (Pyrausta)
80a0835 P. arizonicalis Munroe, 1976 (Pyrausta) 5066
arizonensis Munroe, 1976 (Pyrausta)

Pyrausta semirubralis group Munroe, 1976

80a0836 P. semirubralis (Packard, 1873) (Botys) 5067

Pyrausta aerealis group Munroe, 1976

80a0837 P. unifascialis (Packard, 1873) (Botys) 5068
ssp. a. unifascialis (Packard, 1873) (Botys)
obnigralis (Hulst, 1886) (Botis)
ssp. b. subolivalis (Packard, 1873) (Botys)
hircinalis (Grote, 1875) (Botis)
ssp. c. rindgei Munroe, 1957 (Pyrausta)
ssp. d. arizonensis Munroe, 1957 (Pyrausta)

Pyrausta tyralis group Munroe, 1976

80a0838 P. tyralis (Guenée, 1854) (Rhodaria) 5069
agathalis (Walker, 1859) (Rhodaria)
bellulalis (Hulst, 1886) (Botis)
diffissa (Grote & Robinson, 1867) (Botys)
erosnealis Walker, 1859 (Pyrausta)
idessa (Druce, 1895) (Syllythria)
80a0839 P. laticlavia (Grote & Robinson, 1867) (Botys) 5070
cinerosa (Grote & Robinson, 1867) (Botys)

Pyrausta acrionalis group Munroe, 1976

80a0840 P. acrionalis (Walker, 1859) (Rhodaria) 5071
acuphisalis (Walker, 1859) (Rhodaria)
haruspica (Grote & Robinson, 1867) (Botys)
proceralis (Lederer, 1863) (Botys)
rubicundalis (Lederer, 1863) (Botys)
rufifimbrialis (Grote, 1881) (Botis)
sumptuosalis Walker, [1866] (Pyrausta)

Pyrausta obtusanalis group Munroe, 1976

80a0841 P. obtusanalis Druce, 1899 (Pyrausta) 5072
80a0842 P. niveicilialis (Grote, 1875) (Botis) 5073

Pyrausta fodinalis group Munroe, 1976

80a0843 P. fodinalis (Lederer, 1863) (Botys) 5074
ssp. a. fodinalis (Lederer, 1863) (Botys)
ssp. b. monticola Munroe, 1976 (Pyrausta)
ssp. c. septentrionicola Munroe, 1976 (Pyrausta)
80a0844 P. socialis (Grote, 1877) (Botis) 5075
ssp. a. socialis (Grote, 1877) (Botis)
ssp. b. perpallidalis Munroe, 1976 (Pyrausta)
80a0845 P. antisocialis Munroe, 1976 (Pyrausta) 5076

Genus HYALORISTA Warren, 1892
PYRAUSTOPSIS Amsel, 1956

80a0846 H. taeniolalis (Guenée, 1854) (Rhodaria) 5077
directalis (Walker, [1866]) (Rhodaria)
80a0847 H. exuvialis (Guenée, 1854) (Rhodaria) [NEW]
NOTE: Recent discovery in peninsular FL, with the first specimens found ca. 1983; compared to material in USNM. Specimens deposited in the FSCA and MGCL.

Genus DAULIA Walker, 1859
ID INFO: Munroe (1957).
GIRTEXTA Swinhoe, 1890

80a0848 D. magdalena (Fernald, 1892) (Pyrausta) 5295
80a0849 D. arizonensis Munroe, 1957 (Daulia) 5296

Genus ECPYRRHORRHOE Hübner, [1825]
HARPADISPAR Agenjo, 1952
PYRAUSTEGIA Marion, 1963
YEZOBOTYS Munroe & Mutuura, 1969

80a0850 E. puralis (South, 1901) (Pionea) I [NEW]
NOTE: Introduced from Asia to southeastern USA in the 1990s (Solis et al. 2010).

Subfamily SPILOMELINAE Guenée, 1854

Tribe HYDRIRINI Minet, 1982

Genus CHORISTOSTIGMA Warren, 1892
NAMANGANIA Amsel, 1952

80a0851 C. plumbosignalis (Fernald, 1888) (Botis) 5128
80a0852 C. zephyralis (Barnes & McDunnough, 1914) (Diasemia) 5129
80a0853 C. roseopennalis (Hulst, 1886) (Botis) 5130
80a0854 C. perpulchralis (Hampson, 1899) (Ischnurges) 5131
hromaphila; [Pohl], 2016 (Choristostigma) missp.
hromophila (Dyar, 1914) (Ischnurges)
microchroia (Dyar, 1916) (Ischnurges)
80a0855 C. elegantalis Warren, 1892 (Choristostigma) 5132
argalis (Fernald, 1894) (Metasia)
80a0856 C. disputalis (Barnes & McDunnough, 1917) (Diasemia) 5133
80a0857 C. leucosalis (Barnes & McDunnough, 1914) (Diasemia) 5134

Genus GONOCAUSTA Lederer, 1863

80a0858 G. sabinalis Dyar, 1914 (Gonocausta) [NEW]
NOTE: This species was described from TX, but was accidentally omitted by Munroe (in Hodges et al. 1983).

Genus HYDRIRIS Meyrick, 1885
ANTIERCTA Amsel, 1956
HYPERECTIS Meyrick, 1904
SPANISTA Lederer, 1863

80a0859 H. ornatalis (Duponchel, 1832) (Asopia) H/I 5127
bifascialis (Heeger, 1938) (Nymphula)
deciusalis (Walker, 1859) (Pyralis)
fraterna (Butler, 1875) (Cataclysta)
invenustalis (Walker, [1866]) (Botys)
orientalis (Yamanaka, 1972) (Ercta)
pulchellalis (Mabille, 1879) (Stenia)
saturnalis (Treitschke, 1835) (Nymphula)

Genus LAMPROSEMA Hübner, 1823
OROCALA Walker, [1866]

80a0860 L. lunulalis Hübner, 1823 (Lamprosema) 5103
80a0861 L. victoriae Dyar, 1923 (Lamprosema) 5104
80a0862 L. sinaloanensis Dyar, 1923 (Lamprosema) 5105
80a0863 L. baracoalis Schaus, 1920 (Lamprosema) [NEW]
80a0864 L. canacealis (Walker, 1859) (Desmia) [NEW]
NOTE: Reported from TX by Knudson & Bordelon (2004). Specimens in the MGCL.

Genus OMMATOSPILA Lederer, 1863
THELDA Walker, [1866]

80a0865 O. narcaeusalis (Walker, 1859) (Leucochroma) 5294
nummulalis Lederer, 1863 (Ommatospila)
venustalis (Walker, [1866]) (Leucinodes)

Genus SYLLEPIS Poey, 1832

80a0866 S. hortalis (Walker, 1859) (Botys) 5283
80a0867 S. marialis Poey, 1832 (Syllepis) [NEW]
NOTE: Recent new NA record by Jim Troubridge at Key Largo, FL in 2012.

Genus MICROPHYSETICA Hampson, 1917
NOTE: This genus is tentatively placed in Hydririni, but it may belong in Udeini.
FALCIMORPHA Amsel, 1957
FALX Amsel, 1956

80a0868 M. hermeasalis (Walker, 1859) (Isopteryx) [NEW]
nymphulalis (Hampson, 1906) (Parthenodes)
philogelos (Dyar, 1922) (Sufetula) *[5121]*
NOTE: Synonymy by Munroe (in Heppner 1995a).
sinuosalis (Amsel, 1956) (Falx)

Tribe UDEINI Mally, Hayden, Neinhuis, Jordal & Nuss, 2019

Genus CONCHYLODES Guenée, 1854
LEDERERIA Snellen, [1875]
NONAZOCHIS Amsel, 1956

80a0869 C. diphteralis (Geyer, [1832]) (Lypotigris) 5290
80a0870 C. salamisalis Druce, 1895 (Conchylodes) 5291
80a0871 C. ovulalis (Guenée, 1854) (Spilomela) 5292
80a0872 C. concinnalis Hampson, [1899] 1898 (Conchylodes) 5293
80a0873 C. octonalis (Zeller, 1873) (Orobena) 5251
sexmaculalis (Grote, 1876) (Botis)

Genus ERCTA Walker, 1859

80a0874 E. vittata (Fabricius, 1794) (Phalaena) 5111
hemialis (Guenée, 1854) (Stenia)
tipulalis Walker, 1859 (Ercta)
torquillalis (Möschler, 1890) (Euclasta)
valsaynalis (Kaye, 1925) (Lineodes)

Genus SISYRACERA Möschler, 1890
ARASCHNOPSIS Amsel, 1956
NOTE: Synonymy of *Araschnopsis* by Munroe (in Heppner 1995a).
SYSRACERA; Bordelon & Knudson, 2011 missp.

80a0875 S. subulalis (Guenée, 1854) (Endotricha) 5194
preciosalis (Möschler, [1882]) (Leucinodes)
80a0876 S. inabsconsalis (Möschler, 1890) (Diasemia) [NEW]
NOTE: Reported from FL by Heppner (2007) as *S. contortilinealis*. Landry (2016) synonymized *contortilinealis* and its synonym *veroniae* with *S. inabsconsalis*.
contortilinealis (Hampson, 1895) (Samea)
veroniae (Dyar, 1917) (Nacoleia)

Genus UDEA Guenée, [1845]
ID INFO: Munroe (1966).
MELANOMECYNA Butler, 1883
MNESICTENA Meyrick, 1884
NOTOPHYTIS Meyrick, 1932
PROTAULACISTIS Meyrick, 1899
PROTOCOLLETIS Meyrick, 1888
STANTIRA Walker, 1863

80a0877 U. rubigalis (Guenée, 1854) (Scopula) 5079
ferrugalis of authors; (not Hübner, 1796) (Pyralis) misappl.
NOTE: Old World name used by Forbes (1923) for *U. rubigalis*.
harveyana (Grote, 1877) (Botis)
oblunalis (Lederer, 1863) (Botys)
80a0878 U. profundalis (Packard, 1873) (Botys) 5080
80a0879 U. washingtonalis (Grote, 1882) (Botis) 5081
ssp. a. washingtonalis (Grote, 1882) (Botis)
invinctalis (Hulst, 1886) (Botis)
ssp. b. hollandi Munroe, 1966 (Udea)
ssp. c. nomensis Munroe, 1966 (Udea)
ssp. d. pribilofensis Munroe, 1966 (Udea)
80a0880 U. octosignalis (Hulst, 1886) (Botis) 5082
straminea (Warren, 1892) (Ebulea)
80a0881 U. vacunalis (Grote, 1881) (Botis) 5083
galactalis (Dyar, 1925) (Pyrausta)
80a0882 U. torvalis (Möschler, 1864) (Botys) 5084
gelida (MacLachlan, 1878) (Scoparia)
80a0883 U. alaskalis (Gibson, 1920) (Diasemia) 5085
80a0884 U. inquinatalis (Lienig & Zeller, 1846) (Scopula)H 5086
albinalis (Della Beffa, 1942) (Pionea)
glacialis (Packard, 1867) (Scopula)
80a0885 U. rusticalis (Barnes & McDunnough, 1914) (Phlyctaenia) 5087
80a0886 U. nordeggensis (McDunnough, 1929) (Phlyctaenia) 5088
80a0887 U. berberalis (Barnes & McDunnough, 1918) (Phlyctaenia) 5089
80a0888 U. indistinctalis Warren, 1892 (Udea) 5090
ssp. a. indistinctalis Warren, 1892 (Udea)
ssp. b. johnstoni Munroe, 1966 (Udea)
80a0889 U. sheppardi (McDunnough, 1929) (Phlyctaenia) 5091
80a0890 U. saxifragae (McDunnough, 1935) (Phlyctaenia) 5092
80a0891 U. brevipalpis Munroe, 1966 (Udea) 5093
80a0892 U. cacuminicola Munroe, 1966 (Udea) 5094
80a0893 U. beringialis Munroe, 1966 (Udea) 5095
80a0894 U. derasa Munroe, 1966 (Udea) 5096
80a0895 U. livida Munroe, 1966 (Udea) 5097
80a0896 U. turmalis (Grote, 1881) (Botis) 5098
ssp. a. turmalis (Grote, 1881) (Botis)
ssp. b. catronalis Munroe, 1966 (Udea)
ssp. c. tularensis Munroe, 1966 (Udea)
ssp. d. griseor Munroe, 1966 (Udea)
80a0897 U. itysalis (Walker, 1859) (Scoparia) H 5099
ssp. a. itysalis (Walker, 1859) (Scoparia)
hyperborealis (Möschler, 1874) (Botys)
similissima (Caradja, 1916) (Pionea)
variegata (Walker, 1863) (Stantira)
ssp. b. mertensialis Munroe, 1966 (Udea)
ssp. c. tillialis (Dyar, 1904) (Phlyctaenia)
ssp. d. rindgeorum Munroe, 1966 (Udea)
ssp. e. kodiakensis Munroe, 1966 (Udea)
ssp. f. albimontanalis Munroe, 1966 (Udea)
ssp. g. durango Munroe, 1966 (Udea)
ssp. h. wasatchensis Munroe, 1966 (Udea)
ssp. i. clarkensis Munroe, 1966 (Udea)
ssp. j. marinensis Munroe, 1966 (Udea)
80a0898 U. abstrusa Munroe, 1966 (Udea) 5100
ssp. a. abstrusa Munroe, 1966 (Udea)
ssp. b. subarctica Munroe, 1966 (Udea)
ssp. c. cordilleralis Munroe, 1966 (Udea)
ssp. d. pullmanensis Munroe, 1966 (Udea)
80a0899 U. radiosalis (Möschler, 1883) (Botys) 5101
80a0900 U. aenigmatica (Heinrich, 1931) (Platytes) [NEW]
NOTE: This species, described from CO, was overlooked in recent checklists (B. Landry 1991).

Tribe LINEODINI Amsel, 1956

Genus ATOMOPTERYX Walsingham, 1891
STENOPTYCHA Zeller, 1863
ZELLERINA de la Torre & Callejas, 1957

80a0901 A. solanalis (Barnes & McDunnough, 1913) (Stenoptycha) 5110

Genus LINEODES Guenée, 1854
CIRAPHORUS Dyar, 1910
SCOPTONOMA Zeller, 1873

80a0902 L. elcodes (Dyar, 1910) (Ciraphorus) [NEW]
80a0903 L. fontella Walsingham, in: Hampson, 1913 (Lineodes) 5106
contortalis of Hampson, 1899; not Guenée, 1854 (Lineodes) misid.
80a0904 L. integra (Zeller, 1873) (Scoptonoma) 5107
80a0905 L. interrupta (Zeller, 1873) (Scoptonoma) 5108
80a0906 L. multisignalis Herrich-Schäffer, 1871 (Lineodes) [NEW]
80a0907 L. triangulalis Möschler, 1890 (Lineodes) 5109
cyclophora Hampson, 1913 (Lineodes)
triangularis; Walsingham, 1915 (Lineodes) missp.
80a0908 L. vulnifica Dyar, 1913 (Lineodes) [NEW]
encystalis Hampson, 1913 (Lineodes)

Genus NEOLEUCINODES Capps, 1948

80a0909 N. prophetica (Dyar, 1914) (Leucinodes) 5102
minimalis (Amsel, 1956) (Leucinodes)
80a0910 N. torvis Capps, 1948 (Neoleucinodes) [NEW]
pusilla (Amsel, 1956) (Leucinodes)

Tribe WURTHIINI Roepke, 1916

Genus APILOCROCIS Amsel, 1956

80a0911 A. brumalis (Barnes & McDunnough, 1914) (Sylepta) 5112
80a0912 A. pimalis (Barnes & Benjamin, 1926) (Sylepta) 5113

Genus DIAPHANTANIA Möschler, 1890

80a0913 D. impulsalis (Herrich-Schäffer, 1871) (Botys) 5114

Tribe AGROTERINI Acloque, 1897

Genus BOCCHOROPSIS Amsel, 1956

80a0914 B. pharaxalis (Druce, 1895) (Pantographa) [NEW]
NOTE: Reported for NA (TX) by Blanchard & Knudson (1985a). Pohl et al. (2016) confused this species with *Botys pharaxalis* Walker, 1859, a synonym of *Herpetogramma licarsisalis* (Walker, 1859).

Genus DIASTICTIS Hübner, 1818
ID INFO: Munroe (1956a).
ANOMOSTICTIS Warren, 1892

80a0915 D. argyralis Hübner, 1818 (Diastictis) 5253
80a0916 D. pseudargyralis Munroe, 1956 (Diastictis) 5254
80a0917 D. ventralis (Grote & Robinson, 1867) (Botys) 5255
ssp. a. ventralis (Grote & Robinson, 1867) (Botys)
ssp. b. seamansi Munroe, 1956 (Diastictis)
80a0918 D. fracturalis (Zeller, 1872) (Botis) 5256
80a0919 D. holguinalis Munroe, 1956 (Diastictis) 5257
80a0920 D. viridescens Munroe, 1956 (Diastictis) 5258
80a0921 D. robustior Munroe, 1956 (Diastictis) 5259
80a0922 D. sperryorum Munroe, 1956 (Diastictis) 5260
80a0923 D. caecalis (Warren, 1892) (Anomostictis) 5261
80a0924 D. baccatalis (Hulst, 1892) (Loxostege) N. COMB. 5152
NOTE: The taxon *baccatalis* is transferred to *Diastictis* from *Samea* (n. comb.). This species has typical agroterine characters such as the broad, reduced uncus, the elongate saccus, and a longitudinal, trough-shaped signum. It shares with *Diastictis* species brown maculation with white spots, two fibulae on the valva, and sclerotization on the posterior end of the broad ductus bursae.

Genus FRAMINGHAMIA Strand, 1920

80a0925 F. helvalis (Walker, 1859) (Pionea) 5262
botys Strand, 1920 (Framinghamia)
gyralis (Hulst, 1886) (Botis)
oscitalis (Grote, 1880) (Botis)

Genus LYGROPIA Lederer, 1863

80a0926 L. tripunctata (Fabricius, 1794) (Phalaena) 5248
campalis (Guenée, 1854) (Botys)
cubanalis (Guenée, 1854) (Botys)
80a0927 L. memmialis (Walker, 1859) (Botys) [NEW]
NOTE: Recognized as a valid species by Munroe (in Heppner 1995a) but its new status was not indicated therein.
80a0928 L. plumbicostalis (Grote, 1871) (Botys) 5249
80a0929 L. rivulalis Hampson, [1899] 1898 (Lygropia) 5250
nymphulalis (Haimbach, 1908) (Blepharomastix)

Genus "LYGROPIA" Lederer, 1863 PROV. PL.

80a0930 L. fusalis Hampson, 1904 (Lygropia) mispl. [NEW]
NOTE: This species does not belong in *Lygropia*, but a proper placement has not been determined.
hampsoni (Barnes & McDunnough, 1913) (Nacoleia) [5192]

Genus LYPOTIGRIS Hübner, [1825]

80a0931 L. reginalis (Stoll, in: Cramer, [1781]) (Phalaena) 5252

Genus MICROTHYRIS Lederer, 1863
CROSSOPHORA Möschler, 1890
CYCLOCENA Möschler, 1890
GROSSOPHORA; Munroe, 1956 missp.

80a0932 M. anormalis (Guenée, 1854) (Botys) 5263
dracusalis (Walker, 1859) (Botys)
helcitalis (Walker, 1859) (Botys)
orphnealis (Walker, 1859) (Botys)
subaequalis (Walker, [1866]) (Botys)
80a0933 M. prolongalis (Guenée, 1854) (Botys) STRAY 5264
agenoralis (Walker, 1859) (Botys)
eurytalis (Walker, 1859) (Botys)
scotalis Lederer, 1863 (Microthyris)
sectalis (Guenée, 1854) (Botys)
80a0934 M. lelex (Cramer, [1777]) (Phalaena) N/I [NEW]
flexalis (Möschler, [1882]) (Botis)
foviferalis (Hampson, 1895) (Haritala)
gestatalis (Möschler, 1890) (Cyclocena)
janiralis (Möschler, 1886) (Botys)

Genus PATANIA Moore, 1888
NOTE: Synonymy of *Pleuropyta* by Kirti & Gill (2007).
LOXOSCIA Warren, 1890
NAGIA Walker, 1866
NAGIELLA Munroe, 1976
PLEUROPTYA Meyrick, 1890

80a0935 P. silicalis (Guenée, 1854) (Botys) 5243
cypraealis (Walker, 1859) (Botys)
fluctuosalis (Dyar, [1903]) (Sylepta)
penumbralis (Grote, 1877) (Botis) [5242]
sublutalis (Druce, 1895) (Condylorrhiza)
sublutalis (Warren, 1889) (Hapalia)

Genus PANTOGRAPHA Lederer, 1863
PANTOGRAPTA; [various, no date] missp.

80a0936 P. limata Grote & Robinson, 1867 (Pantographa) 5241
80a0937 P. suffusalis Druce, 1895 (Pantographa) [NEW]

Genus PHAEDROPSIS Warren, 1890
TRICHOGNATHOS Amsel, 1956

80a0938 P. chromalis (Guenée, 1854) (Asopia) 5246
80a0939 P. principialis (Lederer, 1863) (Botys) [NEW]
80a0940 P. stictigramma (Hampson, 1912) (Sylepta) 5247

Genus PHOSTRIA Hübner, [1819]
ANTENNODES Swinhoe, 1906
CONDEGA Moore, 1886
HOPLISA Snellen, 1899
OEDEMATARCHA Swinhoe, 1900
PARBOKLA Swinhoe, 1900
PLECTROCTENA Snellen, 1881
PLECTRONA Snellen, 1895
SAROSCELIS Meyrick, 1894
VATICA Walker, 1869

80a0941 P. tedea (Stoll, in: Cramer, [1780]) (Phalaena) 5265
80a0942 P. oajacalis (Walker, [1866]) (Botys) 5266
pelialis (Felder, Felder & Rogenhofer, 1875) (Botys)

Tribe MARGARONIINI Swinhoe & Cotes, 1889

Genus AGATHODES Guenée, 1854
STENURGES Lederer, 1863

80a0943 A. monstralis Guenée, 1854 (Agathodes) [NEW]
NOTE: Elevated to species by Sourakov et al. (2015); previously referred to in NA as *A. designalis*.
designalis of authors; not Guenée, 1854 (Agathodes) misappl. *[5240]*
floridalis (Hulst, 1886) (Stenurges)

Genus ANTIGASTRA Lederer, 1863

80a0944 A. catalaunalis (Duponchel, [1833]) (Botys) 5181
sionensis Caradja, 1929 (Antigastra)
venosalis (Walker, [1866]) (Botys)

Genus ASTURODES Amsel, 1956

80a0945 A. fimbriauralis (Guenée, 1854) (Astura) [NEW]
NOTE: Added to the NA fauna based on a recent FL record by Jim Troubridge. Specimen deposited in the FSCA.

Genus AZOCHIS Walker, 1859
CATACTENIZA Möschler, 1890

80a0946 A. rufidiscalis Hampson, 1904 (Azochis) 5232
cubanalis Hampson, 1913 (Azochis)

Genus COLOMYCHUS Munroe, 1956

80a0947 C. talis (Grote, 1878) (Botis) 5200

Genus COMPACTA Amsel, 1956

80a0948 C. capitalis (Grote, 1882) (Botis) 5233
NOTE: Forbes (1923) incorrectly used the name *posticata* as a variety of this species; *posticata* is a synonym of *Achyra rantalis*.
posticata of authors; (not Grote & Robinson, 1867) (Polygrammodes) misappl.
80a0949 C. hirtalis (Guenée, 1854) (Botys) 5234
amatalis (Walker, 1859) (Botys)
lybialis (Walker, 1859) (Botys)
80a0950 C. hirtaloidalis (Dyar, 1912) (Polygrammodes) [NEW]
hirtaloides; Munroe, 1983 (Compacta) missp. *[5235]*

Genus CONDYLORRHIZA Lederer, 1863

80a0951 C. vestigialis (Guenée, 1854) (Botyodes) 5215
illutalis (Guenée, 1854) (Botys)
mestoralis (Walker, 1859) (Botys)
oratalis (Hulst, 1886) (Eudioptis)
ortalis; Munroe, 1983 (Condylorrhiza) missp.
syleptalis (Strand, 1920) (Agathodes)
tritealis (Walker, 1859) (Botys)

Genus CYDALIMA Lederer, 1863
NEOGLYPHODES Streltzov, 2008
SISYROPHORA Lederer, 1863
ULIOCOME Swinhoe, 1900

80a0952 C. perspectalis (Walker, 1859) (Phakellura) I [NEW]
NOTE: This East Asian species appeared in Toronto, ON in 2018 and it has not been eradicated (iNaturalist observations).
advenalis (Lederer, 1863) (Phacellura [sic])
albifuscalis (Hampson, [1899] 1898) (Glyphodes)

Genus DIAPHANIA Hübner, 1818
EUDIOPTIS Hübner, 1823
PHAKELLURA Guilding, 1830
SESTIA Snellen, [1875]

80a0953 D. olealis (Felder, Felder & Rogenhofer, 1875) (Eudioptis) 5201
80a0954 D. nitidalis (Stoll, in: Cramer, [1781]) (Phalaena) 5202
vitralis Hübner, 1818 (Diaphania)
80a0955 D. arguta (Lederer, 1863) (Phacellura) 5203
80a0956 D. hyalinata (Linnaeus, 1767) (Phalaena) 5204
lucernalis (Hübner, [1796]) (Pyralis)
marginalis (Stoll, in: Cramer, [1781]) (Phalaena)
sapillitalis; Munroe, 1995 (Diaphania) missp.
zapillitalis (Weyenbergh, 1873) (Pyralis)
80a0957 D. modialis (Dyar, 1912) (Glyphodes) 5205
80a0958 D. infimalis (Guenée, 1854) (Phakellura) 5206
80a0959 D. indica (Saunders, 1851) (Eudioptis) H/I 5207
capensis (Zeller, 1852) (Eudioptis)
curcurbitalis (Guenée, 1862) (Phakellura)
gazorialis (Guenée, 1854) (Phakellura)
hyalinalis (Boisduval, 1833) (Botys)
intermedialis (Dognin, 1904) (Glyphodes)
zygaenalis (Guenée, 1854) (Phakellura)
80a0960 D. lualis (Herrich-Schäffer, 1871) (Botys) 5208
80a0961 D. elegans (Möschler, 1890) (Phacellura) [NEW]
NOTE: Reported in Knudson & Bordelon (2004) and on Bugguide; TX specimens in MGCL (overlooked by Pohl et al. 2016).

Genus "DIAPHANIA" Hübner, 1818 PROV. PL.

80a0962 D. costata (Fabricius, 1775) (Phalaena) mispl. 5216
NOTE: Misplaced in *Diaphania*, where it was placed by Munroe (in Heppner 1995a). Prior to that it was placed in *Stemorrhages* Lederer, 1863 by Munroe (in Hodges et al. 1983).
aurocostalis (Guenée, 1854) (Margarodes)
imitalis (Guenée, 1854) (Margarodes)

Genus GLYPHODES Guenée, 1854
CALOPTYCHIA Hübner, [1825]
DYSALLACTA Lederer, 1863
MOROCOSMA Lederer, 1863

80a0963 G. pyloalis Walker, 1859 (Glyphodes) I 5197
NOTE: This pest of mulberries (*Morus* spp.; Moraceae) was introduced from South Asia.
sylpharis Butler, 1878 (Glyphodes)
80a0964 G. sibillalis Walker, 1859 (Glyphodes) 5198
ssp. a. sibillalis Walker, 1859 (Glyphodes)
alitalis Hulst, 1886 (Glyphodes)
atlitalis; Munroe, 1983 (Glyphodes) missp.
batesi Felder, Felder & Rogenhofer, 1875 (Glyphodes)
impuralis (Herrich-Schäffer, 1871) (Botys)
80a0965 G. floridalis (Fernald, 1901) (Marasmia) 5199
80a0966 G. onychinalis (Guenée, 1854) (Asopia) I [NEW]
NOTE: Recent introduction from the Old World tropics to CA, reported by Solis (2008).
astomalis (Felder, Felder & Rogenhofer, 1875) (Lepyrodes)
braurealis (Walker, 1859) (Zebronia)

Genus HODEBERTIA Leraut, 2003
ID INFO: Hayden & Minno (2016).

80a0967 H. testalis (Fabricius, 1794) (Phalaena) I [NEW]
NOTE: This Old World species was first recognized in NA based on TX records on BugGuide, which led to the discovery of an earlier record from FL in 1983 in the MGCL (Hayden & Minno 2016).
albidalis (Walker, [1866]) (Botys)
incoloralis (Guenée, 1854) (Botys)
melonalis (Walker, 1859) (Botys)
nitetisalis (Walker, 1859) (Spilodes)
perpendiculalis (Duponchel, [1833]) (Botys)
perpendicularis; (Leraut, 1980) (Pleuroptya) missp.
phyllidalis (Schaus, 1940) (Pyrausta)
putrescens (Meyrick, 1934) (Margaronia)
ruficostalis (Lederer, 1855) (Botys)

Genus CHABULA Moore, 1886

80a0968 C. acamasalis (Walker, 1859) (Zebronia) I [NEW]
NOTE: This South Asian species was added to the NA list based on photo records from FL in 2020 and 2022, and a third specimen collected in 2022, confirmed by JEH and deposited in the FSCA.
flexissimalis (Walker, 1866) (Botys)
perspicualis (Walker, 1866) (Zebronia)
strangulalis (Snellen, 1880) (Heterocnephes)

Genus HOTERODES Guenée, 1854

80a0969 H. ausonia (Cramer, [1777]) (Phalaena) 5209
canastralis (Hübner, [1825]) (Margaronia)

Genus LEUCOCHROMA Guenée, 1854

80a0970 L. corope (Stoll, in: Cramer, [1781]) (Phalaena) 5210
corrivalis (Hübner, [1825]) (Epipagis)
minoralis Warren, 1889 (Leucochroma)
selectalis (Walker, [1866]) (Botys)
splendidalis (Stoll, in: Cramer, [1781]) (Phalaena)

Genus LIOPASIA Möschler, [1882]
DICHOTIS Warren, 1892
LIOASIA; Munroe, 1995 missp.
TERASTIODES Warren, 1892

80a0971 L. teneralis (Lederer, 1863) (Botys) 5238

Genus MARUCA Walker, 1859
SIRIOCAUTA Lederer, 1863

80a0972 M. vitrata (Fabricius, 1787) (Phalaena) I [NEW]
NOTE: This cosmopolitan species was described from India, and was first reported from NA by Dickel (1981).
aquatilis; (Shibuya, 1928) (Hydrocampe) missp.
aquitilis (Guérin-Méneville, 1832) (Hydrocampe)
bifenestralis (Mabille, 1880) (Botys)
simialalis (Snellen, [1880]) (Siriocauta)
testulalis (Geyer, [1832]) (Crochiphora)

Genus OMIODES Guenée, 1854
ID INFO: Gentili & Solis (1998).
CHAREMA Moore, 1888
COENOSTOLA Lederer, 1863
DEBA Walker, [1866]
HEDYLEPTA Lederer, 1863
LONCHODES Guenée, 1854
LOXOCREON Warren, 1892
MEROTOMA Meyrick, 1894
PELECYNTIS Meyrick, 1884
PHYCIDICERA Snellen, [1880]
SPARGETA Lederer, 1863

80a0973 O. simialis Guenée, 1854 (Omiodes) 5211
eruptalis (Lederer, 1863) (Coenostola)
jasonalis (Walker, 1859) (Botys)
orontesalis (Walker, 1859) (Botys)
80a0974 O. indicata (Fabricius, 1775) (Phalaena) 5212
connexalis (Walker, [1866]) (Botys)
dnopheralis (Mabille, 1900) (Nacoleia)
dolosalis (Möschler, [1882]) (Botys)
lionnetalis (Legrand, 1966) (Psara)
moeliusalis (Walker, 1859) (Botys)
reductalis (Walker, [1866]) (Botys)
sabalis (Walker, 1859) (Botys)
vulgalis (Guenée, 1854) (Asopia)
vulgaris (Dognin, 1909) (Nacoleia)
80a0975 O. stigmosalis (Warren, 1892) (Tholeria) 5214
exogrammalis (Dyar, 1914) (Boeotarcha)
80a0976 O. martyralis (Lederer, 1863) (Coenostola) [NEW]
cervinalis Amsel, 1956 (Omiodes)
vulpina (Meyrick, 1936) (Hedylepta)

Genus PALPITA Hübner, [1808]
ID INFO (partial): Munroe (1952, 1959).
APYRAUSTA Amsel, 1951
CONCHIA Hübner, 1821
HAPALIA Hübner, 1818
HVIDODES Swinhoe, 1900
LEDERERIA Marschall, 1873
MARGARODES Guenée, 1854
MARGARONIA Hübner, [1825]
PARADOSIS Zeller, 1852
SAROTHRONOTA Lederer, 1863
SEBUNTA Walker, 1863
SYLORA Swinhoe, 1900
TOBATA Walker, 1859

80a0977 P. flegia (Cramer, [1777]) (Phalaena) 5217
phantasmalis (Guenée, 1854) (Margarodes)
villosalis (Zeller, 1852) (Paradosis)
virginalis (Hübner, [1825]) (Margaronia)
80a0978 P. quadristigmalis (Guenée, 1854) (Margarodes) 5218
80a0979 P. persimilis Munroe, 1959 (Palpita) I [NEW]
NOTE: Introduced to NA (FL) by 1980 (Hayden & Buss 2012).
80a0980 P. kimballi Munroe, 1959 (Palpita) 5219
80a0981 P. atrisquamalis (Hampson, 1912) (Glyphodes) [NEW]
gracilalis (Hulst, 1886) (Botis) preocc. *[5220]*
80a0982 P. cincinnatalis Munroe, 1952 (Palpita) 5221
80a0983 P. arsaltealis (Walker, 1859) (Botys) 5222
80a0984 P. illibalis (Hübner, 1818) (Hapalia) 5223
euphaesalis (Walker, 1859) (Botys) *[5224]*
subjectalis (Lederer, 1863) (Botys)
80a0985 P. maritima Sullivan & Solis, 2013 (Palpita) [NEW]
80a0986 P. freemanalis Munroe, 1952 (Palpita) 5225
80a0987 P. magniferalis (Walker, 1861) (Botys) 5226
fascialis (Walker, 1862) (Scoparia)
guttulosa (Walker, 1863) (Sebunta)
80a0988 P. aenescentalis Munroe, 1952 (Palpita) 5227

Genus POLYGRAMMODES Guenée, 1854
ASTURA Guenée, 1854
DICHOCROCOPSIS Dyar, 1910
ICHOCROPSIS; [Pohl], 2016 missp.
LAOPSIS Lederer, 1863

80a0989 P. flavidalis (Guenée, 1854) (Botys) 5228
cinctipedalis (Walker, [1866]) (Botys)
lacoalis (Walker, 1859) (Botys)
80a0990 P. oxydalis (Guenée, 1854) (Botys) [NEW]
NOTE: Recognized as a species distinct from *P. flavidalis* by Munroe (in Heppner 1995a), rather than a subspecies, but its new status was not indicated therein.
80a0991 P. langdonalis (Grote, 1877) (Botis) 5229
80a0992 P. eleuata (Fabricius, [1777] 1776) (Phalaena) [NEW]
elevalis; (Guenée, 1854) (Astura) emend.
elevata; Munroe, 1983 (Polygrammodes) missp. *[5230]*
grandimacula (Dognin, 1912) (Astura)
80a0993 P. sanguinalis Druce, 1895 (Polygrammodes) 5231

Genus PRENESTA Snellen, [1875]

80a0994 P. rubrocinctalis (Guenée, 1854) (Asopia) [NEW]
NOTE: New NA record from Key Largo, FL, collected by Jim Troubridge and deposited in the FSCA. Transferred from *Glyphodes* by Mally et al. (2019).
dilutalis (Walker, [1866]) (Samea)
geminatalis (Herrich-Schäffer, 1871) (Botys)

Genus SYNCLERA Lederer, 1863

80a0995 S. jarbusalis (Walker, 1859) (Samea) 5196
cottalis (Walker, 1859) (Zebronia)

Genus TERASTIA Guenée, 1854

80a0996 T. meticulosalis Guenée, 1854 (Terastia) 5239
ssp. a. meticulosalis Guenée, 1854 (Terastia)
coeligenalis (Hulst, 1886) (Megastes)
quadratalis (Walker, [1866]) (Megaphysa)
ssp. b. occidentalis Sourakov & Grishin, 2022 (Terastia)
NOTE: Subspecies described recently in Sourakov et al. (2022) for CA populations.

Tribe SPILOMELINI Guenée, 1854

Genus MARASMIA Lederer, 1863
NOTE: Scholtens and Solis (2015) placed *M. trapezalis* and *M. cochrusalis* in *Cnaphalocrocis* Lederer, 1863. Considering the forewing venation, they are returned to *Marasmia* following the differential diagnosis of the genera in Shaffer & Munroe (2007).
BRADINOMORPHA Matsumura, 1920
DOLICHOSTICHA Meyrick, 1884
NEOMARASMIA Kalra, David & Banerji, 1967
PRODOTAULA Meyrick, 1934
SUSUMIA Marumo, 1930

80a0997 M. trapezalis (Guenée, 1854) (Salbia) H/I 5288
andresi (Rebel, 1912) (Bradina)
bifurcalis (Snellen, 1880) (Cnaphalocrocis)
convectalis (Walker, [1866]) (Botys)
creonalis (Walker, 1859) (Botys)
neoclesalis (Walker, 1859) (Botys)
perinephes (Meyrick, 1886) (Dolichosticha)
suspicalis (Walker, 1859) (Botys)
80a0998 M. cochrusalis (Walker, 1859) (Hydrocampa) 5289
azionalis (Walker, 1859) (Botys)
perpersalis (Möschler, 1890) (Cnaphalocrocis)
ruptalis (Walker, [1866]) (Botys)

Genus GESHNA Dyar, 1906

80a0999 G. cannalis (Quaintance, 1898) (Hydrocampa) 5126

Genus PALPUSIA Amsel, 1956

80a1000 P. glaucusalis (Walker, 1859) (Botys) [NEW]
80a1001 P. goniopalpia (Hampson, 1912) (Pilocrocis) 5297

Genus RHECTOCRASPEDA Warren, 1892
PILEMIA Möschler, [1882]
RAPONA; Schaus, 1940 missp.
RAPOONA Hedemann, 1894

80a1002 R. periusalis (Walker, 1859) (Botys) 5157
deformalis (Möschler, [1882]) (Pilemia)
tristis (Hedemann, 1894) (Rapoona)

Genus SALBIA Guenée, 1854
SALBIOMORPHA Snellen, [1875]

80a1003 S. tytiusalis (Walker, 1859) (Botys) 5285
80a1004 S. mizaralis (Druce, 1899) (Hedylepta) 5286
80a1005 S. melanobathrum (Dyar, 1914) (Syngamia) [NEW]
NOTE: This new NA record was found at several sites in FL recently, identified via comparison with Dyar's lectotype. Specimens deposited in the FSCA.
80a1006 S. cassidalis Guenée, 1854 (Salbia) [NEW]
NOTE: First NA record from TX in the 2013 Season Summary of the Lepidopterists' Society (2014). Specimen deposited in the MGCL.
pellucidalis Warren, 1889 (Salbia)
praeformatalis Möschler, 1890 (Salbia)
squamosalis Wallengren, 1860 (Salbia)

Genus ORPHANOSTIGMA Warren, 1890

80a1007 O. haemorrhoidalis (Guenée, 1854) (Salbia) 5287
dircealis (Walker, 1859) (Asopia)
futilalis (Barnes & McDunnough, 1914) (Hedylepta)
futillalis (Dyar, 1917) (Heydelepta [sic])
haemorrhodialis; (Klima, 1939) (Syngamia) missp.

Tribe HERPETOGRAMMATINI Mally, Hayden, Neinhuis, Jordal & Nuss, 2019

Genus BLEPHAROMASTIX Lederer, 1863
ICHTHYOPTILA Meyrick, 1936
SOZOA Walker, [1866]

80a1008 B. ranalis (Guenée, 1854) (Stenia) 5182
archasialis (Walker, 1859) (Asopia)
datisalis Druce, 1895 (Blepharomastix)
gracilis (Grote & Robinson, 1867) (Botys)
occidentalis Haimbach, 1908 (Blepharomastix)
ofellusalis (Walker, 1859) (Botys)
olliusalis (Walker, 1859) (Botys)
strictalis (Walker, [1866]) (Botys)
80a1009 B. pseudoranalis (Barnes & McDunnough, 1914) (Pyrausta) 5183
80a1010 B. potentalis (Barnes & McDunnough, 1914) (Pyrausta) 5184
80a1011 B. achroalis (Hampson, 1913) (Pyrausta) 5185

Genus "BLEPHAROMASTIX" Lederer, 1863 PROV. PL.

80a1012 B. haedulalis (Hulst, 1886) (Botis) mispl. 5186
astigmalis (Hampson, 1899) (Nomophila)
irregulalis (Dyar, 1913) (Nomophila)
irregularis; (Klima, 1939) (Nomophila) missp.
80a1013 B. schistisemalis (Hampson, 1912) (Nacoleia) mispl. 5191

Genus CRYPTOBOTYS Munroe, 1956

80a1014 C. zoilusalis (Walker, 1859) (Botys) 5282
hilaralis (Möschler, 1886) (Botys)
masculinalis (Barnes & McDunnough, 1913) (Sylepta)
micromphalis (Hampson, 1912) (Syngamia)

Genus EURRHYPARODES Snellen, 1880
MOLYBDANTHA Meyrick, 1884

80a1015 E. lygdamis Druce, 1902 (Eurrhyparodes) 5122
80a1016 E. splendens Druce, 1895 (Eurrhyparodes) [NEW]

Genus HERPETOGRAMMA Lederer, 1863
ID INFO: Solis (2010); also Handfield & Handfield (2011, 2021b).
ACHARANA Moore, 1885
COREMATARIA Amsel, 1956
CULCITARIA Amsel, 1957
MACROBOTYS Munroe, 1950
PACHYZANCLA Meyrick, 1884
PANTOEOCOME Warren, 1896
PILOPTILA Swinhoe, 1894
STENOMELES Warren, 1892

80a1017 H. aeglealis (Walker, 1859) (Botys) 5280
quinquelinealis (Grote, 1875) (Botis)
80a1018 H. sphingealis Handfield & Handfield, 2011 (Herpetogramma) [NEW]
80a1019 H. bipunctalis (Fabricius, 1794) (Phalaena) 5272
detritalis (Guenée, 1854) (Botys)
lycialis (Walker, 1859) (Botys)
philealis (Walker, 1859) (Botys)
repetitalis (Grote, 1882) (Botis)
simplex (Warren, 1892) (Acharana)
terricolalis (Möschler, [1882]) (Botis)
80a1020 H. centrostrigalis (Stephens, 1834) (Margaritia) 5278
80a1021 H. fluctuosalis (Lederer, 1863) (Botys) 5244
ipomoealis (Capps, 1964) (Pachyzancla) [5273]
80a1022 H. phaeopteralis (Guenée, 1854) (Botys) 5274
additalis (Walker, 1862) (Botys)
cellatalis (Walker, [1866]) (Botys)
communalis (Snellen, [1875]) (Botys)
descripta (Warren, 1892) (Acharana)
inhonestalis (Walker, [1866]) (Botys)
intricatalis (Möschler, 1890) (Botys)
neloalis (Walker, 1859) (Botys)
otreusalis (Walker, 1859) (Botys)
plebejalis (Lederer, 1863) (Botys)
triarialis (Walker, 1859) (Botys)
tridentalis (Snellen, 1872) (Botys)
vecordalis (Guenée, 1854) (Botys)
vestalis (Walker, 1859) (Botys)
80a1023 H. pertextalis (Lederer, 1863) (Botys) 5275
gentilis (Grote, 1873) (Botis [sic])
thesealis (Zeller, 1872) (Botis [sic])
80a1024 H. nymphalis Handfield & Handfield, 2021 (Herpetogramma) [NEW]
80a1025 H. aquilonalis Handfield & Handfield, 2021 (Herpetogramma) [NEW]
80a1026 H. fraxinalis Handfield & Handfield, 2021 (Herpetogramma) [NEW]
80a1027 H. thestealis (Walker, 1859) (Botys) 5277
abdominalis (Zeller, 1872) (Botis) [5276]
NOTE: Recent synonymy by Handfield & Handfield (2021b).
fissalis (Grote, 1882) (Botis)
gulosalis (Hulst, 1886) (Botis)
magistralis (Grote, 1873) (Botis)
80a1028 H. theseusalis (Walker, 1859) (Botys) 5279
feudalis (Grote, 1875) (Botis)
thesealis; (Lederer, 1863) (Botys) emend.
80a1029E H. licarsisalis (Walker, 1859) (Botys) EXCL. [NEW]
NOTE: Listed as an excluded record by Pohl et al. (2016), due to confusion of the synonym *Botys pharaxalis* Walker, 1859, with *Bocchoropsis pharaxalis* (Druce, 1895).
pharaxalis (Walker, 1859) (Botys) (excl.)

Genus HILEITHIA Snellen, [1875]

80a1030 H. magualis (Guenée, 1854) (Isopteryx) 5187
belusalis (Walker, 1859) (Botys)
curtalis (Walker, [1866]) (Asopia)
medealis (Walker, 1859) (Samea)
80a1031 H. decostalis (Guenée, 1854) (Isopteryx) [NEW]
appialis Snellen, [1875] (Hileithia)
melicertalis (Walker, 1859) (Samea)
perseusalis (Walker, 1859) (Zebronia)
80a1032 H. aplicalis (Guenée, 1854) (Isopteryx) 5188
xeniolalis (Hulst, 1886) (Isopteryx)
80a1033 H. rehamalis (Dyar, 1914) (Bocchoris) 5189
rehabalis; Munroe, 1995 (Hileithia) missp.
80a1034 H. differentialis (Dyar, 1914) (Bocchoris) 5190

Genus PILOCROCIS Lederer, 1863
ANISOCTENA Meyrick, 1894

80a1035 P. ramentalis Lederer, 1863 (Pilocrocis) 5281
perfuscalis (Hulst, 1886) (Zinckenia)

Tribe HYMENIINI Swinhoe, 1900

Genus HYMENIA Hübner, [1825]
ZINCKENIA Zeller, 1852

80a1036 H. perspectalis (Hübner, [1796]) (Pyralis) I 5169
exportalis (Guenée, 1854) (Spoladea)
phrasiusalis Walker, 1859 (Hymenia)
primordialis (Zeller, 1852) (Zinckenia)
rhinthonalis (Walker, 1859) (Desmia)
spilotalis (Saalmüller, 1880) (Spoladea)

Genus SPOLADEA Guenée, 1854

80a1037 S. recurvalis (Fabricius, 1775) (Phalaena) I 5170
albifacialis (Boisduval, 1833) (Hydrocampa)
ancylosema (Dognin, 1909) (Nacoleia)
angustalis (Fabricius, 1787) (Phalaena)
animalis Guenée, 1854 (Spoladea)
diffascialis (Hübner, [1825]) (Hymenia)
exodias (Meyrick, 1904) (Hymenia)
fascialis (Stoll, in: Cramer, [1782]) (Phalaena)
formosana (Shiraki, 1910) (Odezia)

Tribe ASCIODINI Mally, Hayden, Neinhuis, Jordal & Nuss, 2019

Genus ASCIODES Guenée, 1854

80a1038 A. quietalis (Walker, 1859) (Scoparia) [NEW]
NOTE: Raised from synonym of *A. gordialis* by Landry (2016). "True" *A. gordialis* is restricted to South America.
confusalis (Hulst, 1886) (Desmia)
gordialis of authors; not Guenée, 1854 (Asciodes) misappl. *[5267]*

Genus BICILIA Amsel, 1956

80a1039 B. iarchasalis (Walker, 1859) (Botys) 5271
concinnalis (Möschler, 1890) (Botys)
differalis (Walker, [1866]) (Pyralis)
fuscalis Amsel, 1956 (Bicilia)
vogli Amsel, 1956 (Bicilia)

Genus LANIIFERA Hampson, 1899

80a1040 L. cyclades (Druce, 1895) (Pachynoa) 5236

Genus LOXOMORPHA Amsel, 1956
CHRYSOBOTYS Munroe, 1956

80a1041 L. cambogialis (Guenée, 1854) (Botys) 5154
citrinalis (Möschler, 1890) (Botys)
lucilla (Butler, 1878) (Botys)
80a1042 L. flavidissimalis (Grote, 1877) (Botis) 5155

Genus MARACAYIA Amsel, 1956

80a1043 M. chlorisalis (Walker, 1859) (Botys) 5298
NOTE: NA records currently treated under this name probably represent an undescribed species, but they are retained here pending taxonomic work.

Genus PSARA Snellen, [1875]
EPICHRONISTIS Meyrick, 1886

80a1044 P. obscuralis (Lederer, 1863) (Botys) 5268
80a1045 P. dryalis (Walker, 1859) (Botys) 5269

Genus SATHRIA Lederer, 1863

80a1046 S. internitalis (Guenée, 1854) (Asciodes) 5270
serenalis (Walker, [1866]) (Megaphysa)
stercoralis Lederer, 1863 (Sathria)

80a1047 S. rufescens (Hampson, 1912) (Pilocrocis) N. COMB. 5213
NOTE: This species has typical asciodine characters such as a bifid uncus, ovate valvae, and a sclerotized arch connecting the sacculus and central zone of the valva. It is hereby transferred from *Omiodes* Guenée (n. comb.), based on two synapomorphies of *Sathria*: the elongate, distally bifid fibula of the valva and the rugose lamella antevaginalis.
miamialis (Dyar, 1917) (Sylepta)

Tribe STENIINI Guenée, 1854

Genus ANAGESHNA Munroe, 1956

80a1048 A. primordialis (Dyar, 1906) (Geshna) 5176
ssp. a. primordialis (Dyar, 1906) (Geshna)
ssp. b. vividior Munroe, 1956 (Anageshna)
ssp. c. pallidior Munroe, 1956 (Anageshna)

Genus APOGESHNA Munroe, 1956
EUVALVA Amsel, 1956

80a1049 A. stenialis (Guenée, 1854) (Isopteryx) 5177
australis (Hulst, 1886) (Hydrocampa)
80a1050 A. acestealis (Walker, 1859) (Samea) [NEW]
NOTE: Collected recently in southern FL by Jim Vargo; specimens deposited in MGCL.
phaerusalis (Walker, 1859) (Asopia)
sagralis (Druce, 1895) (Blepharomastix)

Genus DUPONCHELIA Zeller, 1847

80a1051 D. fovealis Zeller, 1847 (Duponchelia) I [NEW]
NOTE: Introduced to NA from Europe, first found in CA and ON in 2005 (CFIA 2005).
canuisalis (Millière, 1868) (Stenia)
floeschlalis Legrand, 1965 (Duponchelia)
griseata (Butler, 1875) (Hymenia)
komiensis (Ghesquière, 1942) (Decticogaster)
uniflexalis (Mabille, 1879) (Stenia)

Genus LOXOSTEGOPSIS Dyar, 1917 emend.
LOXOTEGOPSIS; Dyar, 1917 orig. missp.

80a1052 L. polle Dyar, 1917 (Loxotegopsis [sic]) 5115
80a1053 L. xanthocrypta (Dyar, 1913) (Pyrausta) 5116
80a1054 L. merrickalis (Barnes & McDunnough, 1918) (Pyrausta) 5117
80a1055 L. emigralis (Barnes & McDunnough, 1918) (Pyrausta) 5118
80a1056 L. curialis Barnes & McDunnough, 1918 (Loxostegopsis) 5119

Genus NACOLEIA Walker, 1859
APLOMASTIX Warren, 1890
ORTHOCONA Warren, 1896
SEMIOCEROS Meyrick, 1884

80a1057 N. charesalis (Walker, 1859) (Botys) I [NEW]
NOTE: Introduced from southeast Asia, first detected in FL in 2012 (Hayden & Troubridge 2015).
argillitis (Turner, 1937) (Sylepta [sic])
delhommealis (Legrand, 1966) (Psara)
molusalis (Walker, 1859) (Botys)
vetustalis (Strand, 1918) (Lampridia)

Genus PENESTOLA Möschler, 1890

80a1058 P. bufalis (Guenée, 1854) (Stenia) 5179
plebeialis (Walker, [1866]) (Botys)
praeficalis Möschler, 1890 (Penestola)
80a1059 P. simplicialis (Barnes & McDunnough, 1913) (Piletocera) 5180

Genus STENIODES Snellen, [1875]
HERINGIA Hedemann, 1894
HERINGIELLA Berg, 1898
SCAEOCERANDRA Meyrick, 1936

80a1060 S. mendica (Hedemann, 1894) (Heringia) 5178
ceddalis (Schaus, 1924) (Stenia)
indianalis (Dyar, 1914) (Stenia)
80a1061 S. declivalis (Dyar, 1914) (Stenia) [NEW]
NOTE: Recently added to the NA fauna; first recorded by Ann Hendrickson, near Camp Wood, Edwards Co., TX, in 2019.

Tribe NOMOPHILINI Kuznetzov & Stekolnikov, 1979

Genus ATEGUMIA Amsel, 1956

80a1062 A. ebulealis (Guenée, 1854) (Samea) 5158

Genus CROCIDOCNEMIS Warren, 1889
SOMATAMIA; Kimball, 1965 missp.
SOMATANIA Möschler, 1890

80a1063 C. pellucidalis (Möschler, 1890) (Somatania) 5153
samealis (Dyar, 1914) (Stenia)
suffusalis (Hampson, 1899) (Sameodes)

Genus DESMIA Westwood, 1831
AEDIODES Guenée, 1854
ARNA Walker, 1856
HYALITIS Guenée, 1854

80a1064 D. funeralis (Hübner, [1796]) (Pyralis) H/I 5159
80a1065 D. maculalis Westwood, 1832 (Desmia) 5160
80a1066 D. subdivisalis Grote, 1871 (Desmia) 5161
nominabilis Hering, 1906 (Desmia)
80a1067 D. ufeus (Cramer, [1777]) (Phalaena) 5162
bulisalis Walker, 1859 (Desmia)
divisalis Walker, [1866] (Desmia) *[5163]*
orbalis (Guenée, 1854) (Aediodes)
prognealis Walker, 1859 (Desmia)
viduatalis Möschler, 1890 (Desmia)
80a1068 D. tages (Cramer, [1777]) (Phalaena) 5164
sertorialis Herrich-Schäffer, 1871 (Desmia)
80a1069E D. stenizonalis Hampson, 1912 (Desmia) EXCL. 5165
NOTE: The NA record is based on a misidentification.
80a1070 D. deploralis Hampson, 1912 (Desmia) 5166
80a1071 D. ploralis (Guenée, 1854) (Aediodes) 5167
propinqualis Möschler, [1882] (Desmia)
repandalis Schaus, 1920 (Desmia)
tages of authors; (not Cramer, [1777]) (Phalaena) misid.
NOTE: Females were historically misidentified as *D. tages*.
80a1072 D. desmialis (Barnes & McDunnough, 1914) (Ercta) 5168
kaeberalis (Haimbach, 1915) (Hymenia)
80a1073E D. microstictalis Hampson, 1904 (Desmia) EXCL. [NEW]
NOTE: Reported from FL by Heppner (2007), but no vouchers could be located; it was excluded from the NA fauna by Scholtens & Solis (2015).

Genus DIACME Warren, 1892

80a1074 D. elealis (Walker, 1859) (Samea) 5142
taedialis (Walker, 1859) (Samea)
80a1075 D. adipaloides (Grote & Robinson, 1867) (Botys) 5143
80a1076 D. phyllisalis (Walker, 1859) (Samea) 5144
aulicalis (Möschler, 1886) (Botys)
80a1077 D. mopsalis (Walker, 1859) (Botys) 5145
griseicinctalis (Hampson, 1913) (Paratalanta)
griseicinctus; (Kimball, 1965) (Sameodes) missp.
mettiusalis (Walker, 1859) (Botys)
togalis (Lederer, 1863) (Botys)

Genus DIASEMIODES Munroe, 1957

80a1078 D. janassialis (Walker, 1859) (Desmia) 5172
hariolalis (Hulst, 1886) (Botis)
80a1079 D. nigralis (Fernald, 1892) (Pyrausta) 5173
80a1080 D. eudamidasalis (Druce, 1899) (Ischnurges) 5193

Genus DIASEMIOPSIS Munroe, 1957
ID INFO: Munroe (1957).

80a1081 D. leodocusalis (Walker, 1859) (Lineodes) 5171
NOTE: Forbes (1923) used the Old World name *D. ramburialis* for this species.
ramburialis of authors; (not Duponchel, 1834) (Hydrocampa) misappl.

Genus DIATHRAUSTA Lederer, 1863
ID INFO: Munroe (1956b).
TRIPLODAULA; Munroe, 1956 missp.
TRIPODAULA Meyrick, 1933

80a1082 D. reconditalis (Walker, 1859) (Hymenia) 5174
minualis (Walker, [1866]) (Aediodes)
octomaculalis Fernald, 1887 (Diathrausta)
80a1083 D. harlequinalis Dyar, 1913 (Diathrausta) 5175
ssp. a. harlequinalis Dyar, 1913 (Diathrausta)
ssp. b. montana Haimbach, 1915 (Diathrausta)
ssp. c. amaura Munroe, 1956 (Diathrausta)
ssp. d. lauta Munroe, 1956 (Diathrausta)

Genus EPIPAGIS Hübner, [1825]
ID INFO: Munroe (1955).
STENOPHYES Lederer, 1863

80a1084 E. forsythae Munroe, 1955 (Epipagis) 5146
80a1085 E. fenestralis (Hübner, [1796]) (Pyralis) [NEW]
huronalis (Guenée, 1854) (Samea) *[5147]*
serinalis (Walker, 1859) (Phalangiodes)
80a1086 E. disparilis (Dyar, 1910) (Stenophyes) 5148

Genus MECYNA Guenée, in: Doubleday, [1849]

80a1087 M. submedialis (Grote, 1876) (Botis) 5135
dissectalis (Grote, 1880) (Botis)
pilalis (Hulst, 1886) (Botis)
80a1088 M. fuscimaculalis (Grote, 1878) (Botis) 5136
confovealis (Hulst, 1886) (Botis)
flavicoloralis (Grote, 1878) (Botis)
80a1089 M. mustelinalis (Packard, 1873) (Botys) 5137
catenulalis (Grote, 1877) (Botis)
monulalis (Hulst, 1886) (Botis)
80a1090 M. luscitialis (Barnes & McDunnough, 1914) (Pyrausta) 5138

Genus MIMOPHOBETRON Munroe, 1950

80a1091 M. pyropsalis (Hampson, 1904) (Pyrausta) 5237
liopasialis (Dyar, 1914) (Pyrausta)
rhodope (Hampson, 1913) (Pyrausta)
rhodopides (Strand, 1917) (Pyrausta)

Genus MIMORISTA Warren, 1890

80a1092 M. subcostalis (Hampson, 1913) (Sameodes) 5139
80a1093 M. trimaculalis (Grote, 1878) (Botis) 5140
80a1094 M. tristigmalis (Hampson, [1899] 1898) (Pilocrocis) 5141
extremalis (Schaus, 1920) (Psara)

Genus NIPHOGRAPTA Warren, 1892

80a1095 N. albiguttalis (Warren, 1889) (Epichronistis) I 5149
NOTE: This South American species was released in FL in 1977 for biocontrol of Waterhyacinth (*Eichhornia crassipes* (Mart.); Pontederiaceae) and has since become established (Center 1981).

Genus NOMOPHILA Hübner, [1825]
ID INFO: Munroe (1973a); also Hayden & Dickel (2014).
MACRONOMEUTIS Meyrick, 1936
STENOPTERYX Guenée, in: Duponchel, [1845]

80a1096 N. triticalis Berg, 1875 (Nomophila) I [NEW]
NOTE: This South American species was reported from FL by Hayden & Dickel (2014); first collected in 1992.
squalidalis Hampson, 1913 (Nomophila)
tetricalis Berg, 1875 (Nomophila)
80a1097 N. nearctica Munroe, 1973 (Nomophila) 5156
noctuella of authors; (not [Denis & Schiffermüller], 1775) (Tinea) misappl.

Genus SAMEA Guenée, 1854
ISOPTERYX Guenée, 1854
PTERYGISUS Butler, 1886

80a1098 S. castellalis Guenée, 1854 (Samea) [NEW]
NOTE: NA populations previously treated as *S. ecclesialis* were raised to full species status by Landry (2016).
ecclesialis of authors; not Guenée, 1854 (Samea) misappl. *[5150]*
80a1099 S. multiplicalis (Guenée, 1854) (Isopteryx) 5151
discessalis Walker, [1866] (Samea)
80a1100 S. druchachalis Dyar, 1924 (Samea) [NEW]
druchalalis; [various, no date] (Samea) missp.

Genus SYNGAMIA Guenée, 1854
ID INFO: Heppner (2010a).
OCHLIA Hübner, 1823

80a1101 S. florella (Stoll, in: Cramer, [1781]) (Phalaena) 5284
quinqualis (Hübner, 1823) (Anania)

[SPILOMELINAE – Unplaced to Tribe]

Genus CANGETTA Moore, 1886
ID INFO: Hayden & Dickel (2014).

80a1102 C. violescentalis (Hampson, 1895) (Syngamia) N. COMB. I [NEW]
NOTE: This introduced species was first recognized in NA as *C. micralis*, by Hayden & Dickel (2014), who transferred it from *Deuterophysa* to *Cangetta*. The synonymy of *micralis* is based on examination of the designated lectotype of *violescentalis* in the NHMUK (n. syn.); *C. violescentalis* is hereby transferred from *Deuterophysa* to *Cangetta* (n. comb.). The earliest known NA specimen is from 1975.
micralis (Hampson, 1907) (Deuterophysa) N. SYN.

Genus DEUTEROPHYSA Warren, 1889
GONOPIONEA Hampson, 1913

80a1103 D. fernaldi Munroe, 1983 (Deuterophysa) 5123
costimaculalis (Fernald, 1901) (Pyrausta)

Genus EULEPTE Hübner, [1825]
ACROSPILA Lederer, 1863

80a1104 E. gastralis (Guenée, 1854) (Botys) [NEW]
NOTE: Recent NA addition, based on FL specimens from the 1980s and one more recent, identified by Alma Solis.

Genus "EULEPTE" Hübner, [1825] PROV. PL.

80a1105 E. anticostalis (Grote, 1871) (Botis) mispl. 5195
levalis (Hulst, 1886) (Botis)

Genus SYLLEPTE Hübner, 1823
ARTHRIOBASIS Warren, 1896
HAITUFA Swinhoe, 1900
HALIOTIGRIS Warren, 1896
NEOMABRA Dognin, 1905
NOTHOSALBIA Swinhoe, 1900
POLYCORYS Warren, 1896
SUBHEDYLEPTA Strand, 1918
TROCTOCERAS Dognin, 1905

80a1106 S. diacymalis Hampson, 1912 (Syllepta [sic]) 5245
80a1107 S. belialis (Walker, 1859) (Botys) [NEW]
NOTE: Reported from NA (TX) by Knudson & Bordelon (2004); deposited in MGCL.
albifrontalis (Möschler, 1890) (Botys)
holoxantha (Hampson, 1912) (Pilocrocis)
molliculalis (Walker, [1866]) (Botys)

Genus HYALEA Guenée, 1854 (excl.)

80a1108E H. dividalis (Geyer, in: Hübner, [1832]) (Anania) EXCL. [NEW]
NOTE: Reported from "USA" by Munroe (in Heppner 1995a) but no vouchers could be located.

Subfamily ODONTIINAE Guenée, 1854
ID INFO: Munroe (1972b).

Tribe ODONTIINI Guenée, 1854

Genus NOCTUELIOPSIS Munroe, 1961

80a1109 N. brunnealis Munroe, 1972 (Noctueliopsis) 4830
80a1110 N. puertalis (Barnes & McDunnough, 1912) (Noctuelia) 4831
80a1111 N. palmalis (Barnes & McDunnough, 1918) (Noctuelia) 4832
80a1112 N. atascaderalis (Munroe, 1951) (Noctuelia) 4833
80a1113 N. aridalis (Barnes & Benjamin, 1922) (Noctuelia) 4834
80a1114 N. pandoralis (Barnes & McDunnough, 1914) (Noctuelia) 4835
ssp. a. pandoralis (Barnes & McDunnough, 1914) (Noctuelia)
80a1115 N. rhodoxanthinalis Munroe, 1974 (Noctueliopsis) 4836
80a1116 N. bububattalis (Hulst, 1886) (Botis) 4837
tectalis (Barnes & McDunnough, 1914) (Noctuelia)
80a1117 N. virula (Barnes & McDunnough, 1918) (Noctuelia) 4838

Genus ODONTIVALVIA Munroe, 1973

80a1118 O. radialis (Munroe, 1972) (Noctueliopsis) 4829

Genus POGONOGENYS Munroe, 1961

80a1119 P. proximalis (Fernald, 1894) (Titanio) 4817
80a1120 P. frechini Munroe, 1961 (Pogonogenys) 4818
80a1121 P. masoni Munroe, 1961 (Pogonogenys) 4819

Genus CHRISMANIA Barnes & McDunnough, 1914

80a1122 C. pictipennalis Barnes & McDunnough, 1914 (Chrismania) 4820

Genus PLUMIPALPIELLA Munroe, 1995
PLUMIPALPIA Munroe, 1961

80a1123 P. martini (Munroe, 1961) (Plumipalpia) 4821

Genus NANNOBOTYS Munroe, 1961

80a1124 N. commortalis (Grote, 1881) (Botis) 4822
minima (Dyar, 1917) (Noctuelia)

Genus PSAMMOBOTYS Munroe, 1961

80a1125 P. fordi Munroe, 1961 (Psammobotys) 4824
80a1126 P. alpinalis Munroe, 1972 (Psammobotys) 4825

Genus HELIOTHELOPSIS Munroe, 1961

80a1127 H. arbutalis (Snellen, [1875]) (Aporodes) 4841
rhea (Druce, 1894) (Panemeria)
80a1128 H. costipunctalis (Barnes & McDunnough, 1914) (Heliothela) 4842
breiralis (Schaus, 1920) (Pycnarmon)
80a1129 H. unicoloralis (Barnes & McDunnough, 1914) (Heliothela) 4843

Genus MOJAVIODES Munroe, 1972

80a1130 M. blanchardae Munroe, 1972 (Mojaviodes) 4840

Genus MOJAVIA Munroe, 1961

80a1131 M. achemonalis (Barnes & McDunnough, 1914) (Noctuelia) 4839
pulcharalis (Barnes & Benjamin, 1924) (Noctuelia)

Genus MICROTHEORIS Meyrick, 1932

80a1132 M. vibicalis (Zeller, 1873) (Botis) 4795
80a1133 M. ophionalis (Walker, 1859) (Rhodaria) 4796
ssp. a. ophionalis (Walker, 1859) (Rhodaria)
nasonialis (Zeller, 1873) (Botis)
sesquialteralis (Zeller, 1873) (Botis)
ssp. b. lacustris Munroe, 1961 (Microtheoris)
ssp. c. eremica Munroe, 1961 (Microtheoris)
ssp. d. baboquivariensis Munroe, 1961 (Microtheoris)
ssp. e. occidentalis Munroe, 1961 (Microtheoris)

Genus RHODOCANTHA Munroe, 1961

80a1134 R. diagonalis Munroe, 1961 (Rhodocantha) 4797

Genus FRECHINIA Munroe, 1961

80a1135 F. helianthiales (Murtfeldt, 1897) (Titanio) 4798
thyanalis (Druce, 1899) (Pionea)
80a1136 F. murmuralis (Dyar, 1917) (Titanio) [NEW]
80a1137 F. lutosalis (Barnes & McDunnough, 1914) (Titanio) 4799
80a1138 F. laetalis (Barnes & McDunnough, 1914) (Titanio) 4800
80a1139 F. criddlealis (Munroe, 1951) (Titanio) 4801
80a1140 F. texanalis Munroe, 1961 (Frechinia) 4802

Genus PROCYMBOPTERYX Munroe, 1961

80a1141 P. belialis (Druce, 1899) (Pionea) 4803

Genus CYMBOPTERYX Munroe, 1961

80a1142 C. fuscimarginalis Munroe, 1961 (Cymbopteryx) 4804
80a1143 C. unilinealis (Barnes & McDunnough, 1918) (Loxostege) 4805
phaeopasta (Hampson, 1919) (Loxostegopsis)

Genus NEOCYMBOPTERYX Munroe, 1973

80a1144 N. heitzmani Munroe, 1973 (Neocymbopteryx) 4806

Genus EDIA Dyar, 1913

80a1145 E. semiluna (Smith, 1905) (Lythrodes) 4807
bidentalis (Barnes & McDunnough, 1912) (Cynaeda)
macrostagma; Munroe, 1983 (Edia) missp.
microstagma Dyar, 1913 (Edia)
80a1146 E. minutissima (Smith, 1906) (Lythrodes) 4808
coolidgei Dyar, 1921 (Edia)

Genus DICHOZOMA Munroe, 1961

80a1147 D. parvipicta (Barnes & McDunnough, 1918) (Loxostege) 4809

Genus CUNEIFRONS Munroe, 1961

80a1148 C. coloradensis Munroe, 1961 (Cuneifrons) 4810

Genus GYROS Edwards, 1881
MONOCONA Warren, 1892
ORIBATES Edwards, 1881

80a1149 G. muirii (Edwards, 1881) (Oribates) 4811
ssp. a. muirii (Edwards, 1881) (Oribates)
ssp. b. rubralis (Warren, 1892) (Monocona)
80a1150 G. atripennalis Barnes & McDunnough, 1914 (Gyros) 4812
80a1151 G. powelli Munroe, 1959 (Gyros) 4813

Genus ANATRALATA Munroe, 1961

80a1152 A. versicolor (Warren, 1892) (Aporodes) 4814

Genus EREMANTHE Munroe, 1972

80a1153 E. chemsaki Munroe, 1972 (Eremanthe) 4815

Genus METAXMESTE Hübner, [1825]
HERCYNA Treitschke, 1828

80a1154 M. nubicola Munroe, 1954 (Metaxmeste) 4816

Genus CHLOROBAPTELLA Munroe, 1995
CHLOROBAPTA Barnes & McDunnough, 1914

80a1155 C. rufistrigalis (Barnes & McDunnough, 1914) (Chlorobapta) 4844

Tribe EURRHYPINI Leraut & Luquet, 1983

Genus MIMOSCHINIA Warren, 1892

80a1156 M. rufofascialis (Stephens, 1834) (Ennychia) extralim. 4826
NOTE: The TL was given as "England" in error; this species is restricted to the New World. The Caribbean synonym *thalialis* was used as a valid name in early Canadian checklists.
thalialis (Walker, 1859) (Botys)
ssp. a. novalis (Grote, 1876) (Emprepes)
ssp. b. decorata (Druce, 1899) (Eustrotia)
ssp. c. nuchalis (Grote, 1878) (Emprepes)

Genus PORPHYRORHEGMA Munroe, 1961

80a1157 P. fortunata Munroe, 1961 (Porphyrorhegma) 4823

Genus JATIVA Munroe, 1961

80a1158 J. castanealis (Hulst, 1886) (Orobena) 4827
jativa (Barnes, 1905) (Thalpochares)

Genus PSEUDOSCHINIA Munroe, 1961

80a1159 P. elautalis (Grote, 1881) (Eurycreon) 4828
magnalis (Hulst, 1886) (Emprepes)

Genus GLAUCODONTIA Munroe, 1972

80a1160 G. pyraustoides Munroe, 1972 (Glaucodontia) 4845

Genus CLINIODES Guenée, 1854
ID INFO: Munroe (1961, 1972b).
BASONGA Möschler, 1886
EXARCHA Lederer, 1863
IDESSA Walker, 1859
METREA Grote, 1882
PROCLINIODES Hayden, 2011

80a1161 C. ostreonalis (Grote, 1882) (Metrea) 4789
urticaloides (Fyles, 1894) (Botys)

Subfamily GLAPHYRIINAE Forbes, 1923

ID INFO (partial): Munroe (1972b, 1973b).
NOTE: Tribes are not recognized in this subfamily, pending a thorough phylogenetic analysis.

Genus SCHACONTIA Dyar, 1914
ID INFO: Goldstein et al. (2013).

80a1162 S. themis Solis & Goldstein, 2013 (Schacontia) [NEW]
80a1163 S. rasa Solis & Goldstein, 2013 (Schacontia) [NEW]

Genus ALATUNCUSIA Amsel, 1956
ID INFO: Munroe (1961, 1972b).

80a1164 A. bergii (Möschler, 1890) (Dichogama) 4793

Genus DICHOGAMA Lederer, 1863
ID INFO: Munroe (1961, 1972b).
CARBACA Walker, [1866]

80a1165 D. redtenbacheri Lederer, 1863 (Dichogama) 4790
nigra Amsel, 1956 (Dichogama)
80a1166 D. amabilis Möschler, 1890 (Dichogama) 4791
80a1167 D. colotha Dyar, 1912 (Dichogama) 4792

Genus EUSTIXIA Hübner, 1823
NOTE: Moved from Odontiinae: Dichogamini Amsel, 1956 following Munroe (in Heppner 1995a).
THELCTERIA Lederer, 1863

80a1168 E. pupula Hübner, 1823 (Eustixia) 4794

Genus HELLULA Guenée, 1854
ASHWANIA Pajni & Rose, 1977
OEBIA Hübner, [1825]
OEOBIA Hübner, [1825]
PHYRATOCOSMA Meyrick, 1936

80a1169 H. rogatalis (Hulst, 1886) (Botis) 4846
undalis of authors; (not Fabricius, 1781) (Phalaena) misappl.
80a1170 H. phidilealis (Walker, 1859) (Leucochroma) 4847
trypheropa (Meyrick, 1936) (Phyratocosma)
80a1171 H. kempae Munroe, 1972 (Hellula) 4848
80a1172 H. aqualis Barnes & McDunnough, 1914 (Hellula) 4849
80a1173 H. subbasalis (Dyar, 1923) (Lamprosema) 4850

Genus GLAPHYRIA Hübner, 1823
BERDURA Möschler, 1886
GLAPHRIA; Fernald, 1903 missp.
HOMOPHYSA Guenée, 1854

80a1174 G. glaphyralis (Guenée, 1854) (Homophysa) 4869
albolineata (Grote & Robinson, 1867) (Lipocosma)
stipatalis (Walker, [1866]) (Scopula)
80a1175 G. sesquistrialis Hübner, 1823 (Glaphyria) [NEW]
sequistralis; [various, no date] (Glaphyria) missp.
sequistrialis; [various, no date] (Glaphyria) missp. [4870]
80a1176 G. basiflavalis Barnes & McDunnough, 1913 (Glaphyria) 4871
80a1177 G. peremptalis (Grote, 1878) (Homophysa) 4872
80a1178 G. fulminalis (Lederer, 1863) (Homophysa) 4873
80a1179 G. cappsi Munroe, 1972 (Glaphyria) 4874

80a1180 G. decisa (Walker, 1866) (Acontia) [NEW]
NOTE: Recent discovery of NA specimens deposited in the FSCA.
pomonalis (Schaus, 1920) (Homophysa)

Genus UPIGA Capps, 1964

80a1181 U. virescens (Hulst, [1901] 1900) (Eromene) 4851

Genus AETHIOPHYSA Munroe, 1964

80a1182 A. delicata Munroe, 1964 (Aethiophysa) 4875
80a1183 A. dualis (Barnes & McDunnough, 1914) (Glaphyria) 4876
80a1184 A. invisalis (Guenée, 1854) (Ebulea) [NEW]
lentiflualis (Zeller, 1872) (Homophysa) [4877]
80a1185 A. consimilis Munroe, 1964 (Aethiophysa) 4878
80a1186 A. extorris (Warren, 1892) (Cybalomia) 5325
quadristrigalis (Fernald, 1894) (Metasia)

Genus XANTHOPHYSA Munroe, 1964

80a1187 X. psychicalis (Hulst, 1886) (Botis) emend. 4879
NOTE: The corrected spelling at the end of the original publication has been overlooked for more than a century, until it was discovered recently by SRN.
psychialis; (Hulst, 1886) (Botis) orig. missp.

Genus ABEGESTA Munroe, 1964

80a1188 A. reluctalis (Hulst, 1886) (Orobena) 4866
80a1189 A. remellalis (Druce, 1899) (Homophysa) 4867
80a1190 A. concha Munroe, 1964 (Abegesta) 4868

Genus STEGEA Munroe, 1964
EGESTA Ragonot, 1891

80a1191 S. mexicana Munroe, 1964 (Stegea) 4859
80a1192 S. sola Munroe, 1972 (Stegea) 4860
80a1193 S. simplicialis (Kearfott, 1907) (Symphysa) 4861
80a1194 S. minutalis (Walter, 1928) (Egesta) 4862
80a1195 S. powelli Munroe, 1972 (Stegea) 4863
80a1196 S. eripalis (Grote, 1878) (Homophysa) 4864
80a1197 S. salutalis (Hulst, 1886) (Botis) 4865
ssp. a. salutalis (Hulst, 1886) (Botis)
ssp. b. ochralis (Haimbach, 1908) (Symphysa)
ssp. c. grisealis Munroe, 1972 (Stegea)
ssp. d. riparialis Munroe, 1972 (Stegea)

Genus PAREGESTA Munroe, 1964

80a1198 P. californiensis Munroe, 1964 (Paregesta) 4852

Genus NEPHROGRAMMA Munroe, 1964

80a1199 N. reniculalis (Zeller, 1872) (Homophysa) 4857
80a1200 N. separata Munroe, 1972 (Nephrogramma) 4858

Genus SCYBALISTODES Munroe, 1964

80a1201 S. periculosalis (Dyar, 1908) (Glaphyria) 4853
80a1202 S. vermiculalis Munroe, 1964 (Scybalistodes) 4854
80a1203 S. regularis Munroe, 1964 (Scybalistodes) 4855
80a1204 S. fortis Munroe, 1972 (Scybalistodes) 4856

Genus PLUMEGESTA Munroe, 1972

80a1205 P. largalis Munroe, 1972 (Plumegesta) 4880

Genus ENNOMOSIA Amsel, 1956
ID INFO: Hayden & Dickel (2014).

80a1206 E. basale (Hampson, 1897) (Clupeosoma) [NEW]
geometridalis Amsel, 1956 (Ennomosia)

Genus LIPOCOSMA Lederer, 1863
CLARKEIA Amsel, 1956
CLARKEIODES Amsel, 1957
LIPOCOSMOPSIS Munroe, 1964

80a1207 L. sicalis (Walker, 1859) (Leucinodes) 4881
perfusalis (Walker, [1866]) (Pyralis)
80a1208 L. diabata Dyar, 1917 (Lipocosma) 4882
80a1209 L. adelalis (Kearfott, 1903) (Symphysa) 4883
80a1210 L. intermedialis Barnes & McDunnough, 1912 (Lipocosma) 4884
80a1211 L. septa Munroe, 1972 (Lipocosma) 4885
80a1212 L. albinibasalis Munroe, 1995 (Lipocosma) [NEW]
NOTE: Replacement name for *albibasalis* Barnes & McDunnough, 1911, a junior homonym of *Lipocosma albibasalis* Hampson, 1906.
albibasalis Barnes & McDunnough, 1911 (Lipocosma) preocc. [4886]
80a1213 L. polingi Munroe, 1972 (Lipocosma) 4887

Genus LIPOCOSMODES Munroe, 1964

80a1214 L. fuliginosalis (Fernald, 1888) (Lipocosma) 4888

Genus DICYMOLOMIA Zeller, 1872
BIFALCULINA Amsel, 1956

80a1215 D. julianalis (Walker, 1859) (Cataclysta) 4889
decora Zeller, 1872 (Dicymolomia)
80a1216 D. metalophota (Hampson, 1897) (Ambia) 4890
argentipunctalis (Amsel, 1956) (Bifalculina)
consortalis (Dyar, 1914) (Lipocosma)
80a1217 D. opuntialis Dyar, 1908 (Dicymolomia) 4891
80a1218 D. metalliferalis (Packard, 1873) (Calaclysta [sic]) 4892
sauberi Hedemann, 1883 (Dicymolomia)
80a1219 D. grisea Munroe, 1964 (Dicymolomia) 4893
80a1220 D. micropunctalis Munroe, 1964 (Dicymolomia) 4894

Genus CHALCOELA Zeller, 1872

80a1221 C. iphitalis (Walker, 1859) (Cataclysta) 4895
aurifera Zeller, 1872 (Chalcoela)
80a1222 C. pegasalis (Walker, 1859) (Cataclysta) 4896
discedalis Möschler, 1890 (Chalcoela)
egressalis (Walker, [1866]) (Cataclysta)
principalis (Walker, [1866]) (Cataclysta)
robinsonii (Grote, 1871) (Cataclysta)

Genus EVERGESTIS Hübner, [1825]
AEDIS Grote, 1878
HOMOCHROA Hübner, [1825]
MAELINOPTERA Staudinger, 1893
MESOGRAPHE Hübner, [1825]
OROBENA Guenée, 1854
PACHYZANCLOIDES Matsumura, 1925
PARAEDIS Grote, 1882
PIONEA Guenée, [1845]
RESKOVITSIA Szent-Iványi, 1942
SCOPOLIA Hübner, [1825]

80a1223 E. pallidata (Hufnagel, 1767) (Phalaena) H/I 4897
elutalis (Hübner, [1796]) (Pyralis)
eunusalis (Walker, 1859) (Pionea)
stramentalis (Hübner, 1825) (Mesographe)
straminalis (Hübner, 1793) (Phalaena)
80a1224 E. rimosalis (Guenée, 1854) (Pionea) 4898
80a1225 E. consimilis Warren, 1892 (Euergestis [sic]) 4899
80a1226 E. aridalis Barnes & McDunnough, 1914 (Evergestis) 4900
80a1227 E. unimacula (Grote & Robinson, 1867) (Asopia) 4901
80a1228 E. lunulalis Barnes & McDunnough, 1914 (Evergestis) 4902
80a1229 E. nolentis Heinrich, 1940 (Evergestis) 4903
80a1230 E. simulatilis (Grote, 1880) (Aedis) 4904
brunneogrisea (Edwards, 1886) (Prorasea)
80a1231 E. angustalis (Barnes & McDunnough, 1918) (Phlyctaenia) 4905
ssp. a. angustalis (Barnes & McDunnough, 1918) (Phlyctaenia)
ssp. b. catalinae Munroe, [1974] 1973 (Evergestis)
ssp. c. arizonae Munroe, [1974] 1973 (Evergestis)
80a1232 E. vinctalis Barnes & McDunnough, 1914 (Evergestis) 4906
ssp. a. vinctalis Barnes & McDunnough, 1914 (Evergestis)
ssp. b. muricoloralis Munroe, [1974] 1973 (Evergestis)
80a1233 E. palousalis Munroe, [1974] 1973 (Evergestis) [NEW]
ssp. a. palousalis Munroe, [1974] 1973 (Evergestis)
ssp. b. obscuralias Munroe, 1995 (Evergestis)
obscuralis Barnes & McDunnough, 1914 (Evergestis) preocc. [4907]
80a1234 E. comstocki Munroe, [1974] 1973 (Evergestis) 4908

80a1235 E. funalis (Grote, 1878) (Aedis) 4909
ssp. a. funalis (Grote, 1878) (Aedis)
ssp. b. insulalis Barnes & McDunnough, 1914 (Evergestis)
ssp. c. columbialis Munroe, [1974] 1973 (Evergestis)
ssp. d. angelina Munroe, [1974] 1973 (Evergestis)
ssp. e. wallacensis Munroe, [1974] 1973 (Evergestis)
80a1236 E. subterminalis Barnes & McDunnough, 1914 (Evergestis) 4910
80a1237 E. eurekalis Barnes & McDunnough, 1914 (Evergestis) 4911
ssp. a. eurekalis Barnes & McDunnough, 1914 (Evergestis)
ssp. b. fuscistrigalis Munroe, [1974] 1973 (Evergestis)
80a1238 E. obliqualis (Grote, 1883) (Paraedis) 4912
80a1239 E. dischematalis Munroe, 1995 (Evergestis) [NEW]
NOTE: Replacement name for *E. dimorphalis* Munroe, [1974] 1973, a junior homonym of *Evergestis dimorphalis* Osthelder, 1938.
dimorphalis Munroe, [1974] 1973 (Evergestis) preocc. [4913]
80a1240 E. triangulalis Barnes & McDunnough, 1914 (Evergestis) 4914
80a1241 E. borregalis Munroe, [1974] 1973 (Evergestis) 4915

Genus PRORASEA Grote, 1878

80a1242 P. simalis Grote, 1878 (Prorasea) 4916
80a1243 P. gracealis Munroe, [1974] 1973 (Prorasea) 4917
80a1244 P. praeia (Dyar, 1917) (Cornifrons) 4918
80a1245 P. fernaldi Munroe, [1974] 1973 (Prorasea) 4919
80a1246 P. sideralis (Dyar, 1917) (Cornifrons) 4920
80a1247 P. pulveralis (Warren, 1892) (Cornifrons) 4921

Genus CORNIFRONS Lederer, 1858
VENTOSALIS [Marion], 1957

80a1248 C. actualis Barnes & McDunnough, 1918 (Cornifrons) 4922
80a1249 C. phasma Dyar, 1917 (Cornifrons) 4923
chlorophasma Dyar, 1917 (Cornifrons)

Genus CYLINDRIFRONS Munroe, 1951

80a1250 C. succandidalis (Hulst, 1886) (Botis) 4924
simplex (Warren, 1895) (Cavifrons)

Genus ORENAIA Duponchel, [1845]

80a1251 O. trivialis Barnes & McDunnough, 1914 (Orenaia) 4925
subargentalis (Barnes & McDunnough, 1918) (Titanio)
80a1252 O. coloradalis Barnes & McDunnough, 1914 (Orenaia) 4926
80a1253 O. arcticalis Munroe, [1974] 1973 (Orenaia) 4927
80a1254 O. sierralis Munroe, [1974] 1973 (Orenaia) 4928
80a1255 O. alticolalis (Barnes & McDunnough, 1914) (Titanio) 4929
80a1256 O. pallidivittalis Munroe, 1956 (Orenaia) 4930
80a1257 O. macneilli Munroe, [1974] 1973 (Orenaia) 4931

Genus EVERGESTELLA Munroe, [1974] 1973

80a1258 E. evincalis (Möschler, 1890) (Botys) 4932

Genus TRISCHISTOGNATHA Warren, 1892

80a1259 T. pyrenealis (Walker, 1859) (Botys) 4933
dyaralis (Fernald, 1901) (Evergestis)
implicitalis (Möschler, 1890) (Orobena)
medonalis (Walker, 1859) (Botys)

Genus HYDROPIONEA Hampson, 1917

80a1260 H. oblectalis (Hulst, 1886) (Botis) 5124
eumoros (Dyar, 1917) (Clupeosoma)
80a1261 H. fenestralis (Barnes & McDunnough, 1914) (Diasemia) 5125

Subfamily LATHROTELINAE Clarke, 1971

Genus SUFETULA Walker, 1859
ID INFO: Hayden (2013b).
LOETRINA Walker, 1863
MIROBRIGA Walker, 1863
MYROBRIGA; [Pohl], 2016 missp.
NANNOMORPHA Turner, 1908
PERFORADIX Sein, 1930
PSEUDOCHOEUTIS; [Pohl], 2016 missp.
PSEUDOCHOREUTIS Snellen, 1880

80a1262 S. diminutalis (Walker, [1866]) (Isopteryx) 5120
dematrialis (Druce, 1896) (Hydrocampa)
80a1263 S. carbonalis Hayden, 2013 (Sufetula) [NEW]

Subfamily MUSOTIMINAE Meyrick, 1884

Genus UNDULAMBIA Lange, 1956
ID INFO: Munroe (1972a).

80a1264 U. striatalis (Dyar, 1906) (Ambia) 4740
80a1265 U. polystichalis Capps, 1965 (Undulambia) 4741
80a1266 U. rarissima Munroe, 1972 (Undulambia) 4742

Genus NEOMUSOTIMA Yoshiyasu, 1985

80a1267 N. conspurcatalis (Warren, 1896) (Ambia) I [NEW]
NOTE: Introduced to FL from the Old World tropics for biocontrol of Old World Climbing Fern (*Lygodium microphyllum* (Cav.) R. Br.; Polypodiales: Lygodiaceae) (Boughton & Pemberton 2012).
fuscalis (Snellen, 1901) (Musotima)

Genus AUSTROMUSOTIMA Solis & Yen, 2004 (excl.)

80a1268E A. camptozonale (Hampson, 1897) (Oligostigma) EXCL. [NEW]
NOTE: Introduced in FL but not established (Scholtens & Solis 2015).

Subfamily SCHOENOBIINAE Duponchel, 1846

Genus CARECTOCULTUS Blanchard, 1975

80a1269 C. perstrialis (Hübner, [1825]) (Agriphila) 5307
consortalis (Dyar, 1909) (Argyria)
funerellus (Hampson, 1901) (Chilo)
macrinellus (Zeller, 1866) (Schoenobius)
repugnatalis (Walker, 1863) (Chilo) [5308]
serriradiellus (Walker, 1863) (Crambus)
80a1270 C. dominicki Blanchard, 1975 (Carectocultus) 5309

Genus LEPTOSTEGES Warren, 1889

80a1271 L. xantholeucalis (Guenée, 1854) (Parthenodes) 5300
fasciella (Fernald, 1887) (Scirpophaga)
80a1272 L. flavicostella (Fernald, 1887) (Scirpophaga) 5301
80a1273 L. flavifascialis (Barnes & McDunnough, 1913) (Patissa) 5302
80a1274 L. parthenialis (Dyar, 1917) (Patissa) 5303
80a1275 L. chrysozona (Dyar, 1917) (Patissa) 5304
80a1276 L. sordidalis (Barnes & McDunnough, 1913) (Patissa) 5305
80a1277 L. vestaliella (Zeller, 1872) (Scirpophaga) 5306

Genus RUPELA Walker, 1863
ID INFO: Heinrich (1937).
STORTERIA Barnes & McDunnough, 1913

80a1278 R. segrega Heinrich, 1937 (Rupela) 5310
80a1279 R. tinctella (Walker, 1863) (Salapola) 5311
NOTE: Forbes (1923) used the extralimital name *R. albinella* for this species.
albinella of authors; (not Stoll, in: Cramer, [1781]) (Phalaena) misappl.
holophaealis (Hampson, 1904) (Scirpophaga)
unicolor (Barnes & McDunnough, 1913) (Storteria)
zelleri (Möschler, [1882]) (Scirpophaga)
80a1280 R. sejuncta Heinrich, 1937 (Rupela) 5312

Genus DONACAULA Meyrick, 1890
ID INFO: Martinez (2010).
NOTE: The thesis of Martinez (2010) has not been formally published, so the names described within it are not valid names according to the ICZN. Synonymies made therein have been accepted, but the new species described in that work are excluded from the current list.

80a1281 D. sordidellus (Zincken, 1821) (Chilo) 5313
80a1282 D. unipunctellus (Robinson, 1870) (Schoenobius) 5314
80a1283 D. tripunctellus (Robinson, 1870) (Schoenobius) 5315
80a1284 D. melinellus (Clemens, 1860) (Chilo) 5316
80a1285 D. dispersellus (Robinson, 1870) (Schoenobius) [NEW]
80a1286 D. albicostellus (Fernald, 1888) (Schoenobius) [NEW]
uniformellus (Dyar, 1917) (Schoenobius)
80a1287 D. aquilellus (Clemens, 1860) (Schoenobius) 5317
clemensellus (Robinson, 1870) (Schoenobius)
80a1288 D. pallulellus (Barnes & McDunnough, 1912) (Schoenobius) 5318
80a1289 D. longirostrallus (Clemens, 1860) (Chilo) [NEW]
NOTE: This species name is often treated as an original misspelling, and the spelling "*longirostrellus*" has been widely used, but that is incorrect; *longirostrallus* is the correct spelling (Nuss et al. 2022). The Palaearctic name *D. forficella* has also been widely used historically for this species.
amblyptepennis (Dyar, 1917) (Schoenobius) *[5320]*
forficella of authors; (not Thunberg, 1794) (Tinea) misappl.
longirostrellus; [various, no date] (Donacaula) emend. *[5319]*
80a1290 D. roscidellus (Dyar, 1917) (Schoenobius) 5321
bicolorellus (Hoffman, 1934) (Schoenobius)
80a1291 D. nitidellus (Dyar, 1917) (Schoenobius) 5322
80a1292 D. uxorialis (Dyar, 1921) (Schoenobius) 5323
80a1293 D. maximellus (Fernald, 1891) (Schoenobius) 5324

Subfamily ACENTROPINAE Stephens, 1836

Tribe ACENTROPINI Stephens, 1836

Genus ACENTRIA Stephens, 1829
ID INFO: Scholtens & Balogh (1996).
ACENTROPUS Curtis, 1834
SETINA Hübner, 1819
ZANCLE Stephens, 1833

80a1304 A. ephemerella ([Denis & Schiffermüller], 1775) (Tinea) I [NEW]
NOTE: This species, previously known as *A. nivea*, was introduced from Europe, first appearing in NA (QC) in 1927 (Scholtens & Balogh 1996). It was transferred from Schoenobiinae by Speidel (1984), necessitating the change of all Nymphulinae Hübner, 1825 to Acentropinae.
ssp. a. ephemerella ([Denis & Schiffermüller], 1775) (Tinea)
badensis (Nolcken, 1869) (Acentropus)
ephemera (Hübner, 1819) (Setina)
garnonsii (Curtis, 1834) (Acentropus)
germanicus (Nolcken, 1869) (Acentropus)
hansoni (Stephens, 1833) (Zancle)
latipennis (Möschler, 1860) (Acentropus)
newae (Kolenati, 1858) (Acentropus)
nivea (Olivier, 1791) (Phryganea) *[5299]*
niveus (Stephens, 1834) (Acentropus)
nivosa Stephens, 1829 (Acentria)
phryganea (Hübner, 1809) (Bombyx)
sembris (Hübner, 1809) (Bombyx)

Tribe NYMPHULINI Duponchel, 1845
ID INFO: Munroe (1972a).

Genus OLIGOSTIGMOIDES Lange, 1956

80a1305 O. cryptalis (Druce, 1896) (Cataclysta) 4766
cryptale; (Hampson, 1897) (Cataclysta) emend.

Genus LANGESSA Munroe, 1972

80a1306 L. nomophilalis (Dyar, 1906) (Nymphula) 4758

Genus ELOPHILA Hübner, 1822
CRYPTOGRAMME Yoshiyasu, 1985
ELOPHILA Hübner, 1806
HYDROCAMPA Stephens, 1829
HYDROCAMPUS Berthold, in: Latreille, 1827
MUNROESSA Lange, 1956
SYNCLITA Lederer, 1863

80a1307 E. ekthlipsis (Grote, 1876) (Hydrocampa) 4747
80a1308 E. icciusalis (Walker, 1859) (Leucochroma) 4748
ssp. a. icciusalis (Walker, 1859) (Leucochroma)
formosalis (Clemens, 1860) (Hydrocampa)
genualis (Lederer, 1863) (Hydrocampa)
ssp. b. albiplaga (Munroe, 1972) (Munroessa)
ssp. c. avalona (Munroe, 1972) (Munroessa)
80a1309 E. faulalis (Walker, 1859) (Leucochroma) 4749
pacalis (Grote, 1881) (Hydrocampa)
80a1310 E. nebulosalis (Fernald, 1887) (Hydrocampa) 4750
80a1311 E. gyralis (Hulst, 1886) (Hydrocampa) 4751
dentilinea (Hampson, 1897) (Nymphula)
serralinealis (Barnes & Benjamin, 1924) (Nymphula)
80a1312 E. tinealis (Munroe, 1972) (Synclita) 4754
80a1313 E. obliteralis (Walker, 1859) (Isopteryx) 4755
proprialis (Fernald, 1888) (Hydrocampa)
80a1314 E. atlantica (Munroe, 1972) (Synclita) 4756
80a1315 E. occidentalis (Lange, 1956) (Synclita) 4757

Genus CONTIGER Lange, 1956

80a1316 C. vittatalis (Dyar, 1906) (Oligostigma) 4752

Genus NYMPHULIELLA Lange, 1956

80a1317 N. daeckealis (Haimbach, 1915) (Diathrausta) 4753
broweri (Heinrich, 1940) (Nymphula)

Genus PARAPOYNX Hübner, [1825]
COSMOPHYLLA Turner, 1908
EUSTALES Clemens, 1880
HYDREURETIS Meyrick, 1885
MICRODRACON Warren, 1890
NYMPHAEELLA Grote, 1880
PARAPONYX; Guenée, 1854 missp.
SIRONIA Clemens, 1860

80a1318 P. maculalis (Clemens, 1860) (Sironia) 4759
dispar (Grote, 1880) (Nymphaeella)
foeminalis (Dyar, 1906) (Nymphula)
masculinalis (Dyar, 1906) (Nymphula)
seminivella (Walker, 1866) (Nephopteryx)
80a1319 P. obscuralis (Grote, 1881) (Oligostigma) 4760
80a1320 P. badiusalis (Walker, 1859) (Cymoriza) 4761
albalis (Robinson, 1870) (Oligostigma)
80a1321 P. curviferalis (Walker, [1866]) (Oligostigma) 4762
80a1322 P. semirealis (Walker, 1859) (Oligostigma) 4763
tedyuscongalis (Clemens, 1860) (Eustales)
80a1323 P. allionealis Walker, 1859 (Paraponyx [sic]) 4764
aptalis Lederer, 1863 (Parapoynx)
cretacealis Lederer, 1863 (Parapoynx)
itealis (Walker, 1859) (Hydrocampa)
plenilinealis Grote, 1881 (Parapoynx)
80a1324 P. diminutalis Snellen, 1880 (Parapoynx) 4765
dicentra Meyrick, 1885 (Paraponyx [sic])
pallida (Butler, 1886) (Oligostigma)
uxorialis (Strand, 1919) (Nymphula)

Genus NEOCATACLYSTA Lange, 1956

80a1325 N. magnificalis (Hübner, [1796]) (Pyralis) 4743
heliopalis; Munroe, 1983 (Neocataclysta) missp.
helopalis (Clemens, 1860) (Cataclysta)
lamialis (Walker, 1859) (Cataclysta)

Genus CHRYSENDETON Grote, 1881

80a1326 C. medicinalis (Grote, 1881) (Cataclysta) 4744
80a1327 C. kimballi Lange, 1956 (Chrysendeton) 4745
80a1328 C. imitabilis (Dyar, 1917) (Elophila) 4746
80a1329 C. nigrescens Heppner, 1991 (Chrysendeton) [NEW]

Tribe ARGYRACTINI Lange, 1956
ID INFO: Munroe (1972a).

Genus ARGYRACTIS Hampson, 1897

80a1330 A. drumalis (Dyar, 1906) (Elophila) 4770

Genus NEARGYRACTIS Lange, 1956

80a1331 N. slossonalis (Dyar, 1906) (Elophila) 4769
80a1332 N. moniligeralis (Lederer, 1863) (Cataclysta) [NEW]
NOTE: Reported from FL by Kimball (1965); it was overlooked by Munroe (in Hodges et al. 1983).

Genus USINGERIESSA Lange, 1956

80a1333 U. onyxalis (Hampson, 1897) (Cataclysta) 4767
cancellalis (Dyar, 1917) (Elophila)
80a1334 U. brunnildalis (Dyar, 1906) (Elophila) 4768

Genus PETROPHILA Guilding, 1830
ID INFO: Munroe (1972a); also Solis & Tuskes (2018), Sexton (2021).
PARARGYRACTIS Lange, 1956

80a1335 P. daemonalis (Dyar, 1908) (Elophila) 4771
80a1336 P. cappsi (Lange, 1956) (Parargyractis) 4772
80a1337 P. kearfottalis (Barnes & McDunnough, 1917) (Cataclysta) 4773
kearfottalis (Dyar, 1906) (Elophila)
80a1338 P. anna Solis & Tuskes, 2018 (Petrophila) [NEW]
80a1339 P. bifascialis (Robinson, 1870) (Cataclysta) 4774
80a1340 P. cornvillia Solis & Tuskes, 2018 (Petrophila) [NEW]
80a1341 P. jaliscalis (Schaus, 1906) (Cataclysta) 4775
satanalis (Dyar, 1917) (Elophila)
80a1342 P. hodgesi (Munroe, 1972) (Parargyractis) 4776
80a1343 P. fulicalis (Clemens, 1860) (Cataclysta) 4777
angulatalis (Lederer, 1863) (Cataclysta)
80a1344 P. santafealis (Heppner, 1976) (Parargyractis) 4778
80a1345 P. canadensis (Munroe, 1972) (Parargyractis) 4779
80a1346 P. confusalis (Walker, [1866]) (Cataclysta) 4780
truckeealis (Dyar, 1917) (Elophila)
80a1347 P. avernalis (Grote, 1883) (Chryseudeton [sic]) 4781
confusalis (Barnes & McDunnough, 1913) (Argyractis)
80a1348 P. cronialis (Druce, 1896) (Cataclysta) 4782
80a1349 P. longipennis (Hampson, 1906) (Argyractis) 4783
80a1350 P. schaefferalis (Dyar, 1906) (Elophila) 4784
castusalis (Schaus, 1924) (Argyractis)
80a1351 P. heppneri Blanchard & Knudson, 1983 (Petrophila) [NEW]

Genus EOPARARGYRACTIS Lange, 1956
NOTE: This genus was described in May of 1956 (Lange 1956a) without a type species designation. That was done in a note later the same year (Lange 1956b).
EOPARARGYRACTIS Lange, 1956 nom. nud.

80a1352 E. irroratalis (Dyar, 1917) (Elophila) 4785
80a1353 E. floridalis Lange, 1956 (Eoparargyractis) 4786
80a1354 E. plevie (Dyar, 1917) (Elophila) 4787

Genus OXYELOPHILA Forbes, 1922

80a1355 O. callista (Forbes, 1922) (Argyractis) 4788

Subfamily SCOPARIINAE Guenée, 1854
ID INFO: Munroe (1972a).

Genus GESNERIA Hübner, [1825]
SCOPARONA Chapman, 1912

80a1356 G. centuriella ([Denis & Schiffermüller], 1775) (Tinea) extralim. H 4703
ssp. a. caecalis (Walker, [1859]) (Hypena)
borealis (Duponchel, in: Lefebvre, 1836) (Eudorea)
NOTE: Sunk from a subspecies to synonym of the subspecies *caecalis* by Karsholt et al. (2015).
caliginosalis (Walker, [1866]) (Scopula)
ssp. b. beringiella Munroe, 1972 (Gesneria)
ssp. c. ninguidalis (Hulst, 1886) (Scoparia)
80a1357 G. rindgeorum Munroe, 1972 (Gesneria) 4704

Genus COSIPARA Munroe, 1972

80a1358 C. tricoloralis (Dyar, 1904) (Scoparia) 4705
80a1359 C. modulalis Munroe, 1972 (Cosipara) 4706
80a1360 C. chiricahuae Munroe, 1972 (Cosipara) 4707

Genus SCOPARIA Haworth, 1811
CARADJAINA Leraut, 1986
CHOLIUS Guenée, 1845
EPILEUCIA Stephens, 1852
EUDOREA Curtis, 1827
PHEGEA Gistel, 1848
SCOPEA Haworth, 1828
SINEUDONIA Leraut, 1986
TETRAPROSOPUS Butler, 1882
XEROSCOPA Meyrick, 1884

80a1361 S. rigidalis Barnes & McDunnough, 1912 (Scoparia) 4708
80a1362 S. denigata Dyar, 1929 (Scoparia) 4709
80a1363 S. normalis Dyar, 1904 (Scoparia) 4710
80a1364 S. palloralis Dyar, 1906 (Scoparia) 4711
cervalis McDunnough, 1927 (Scoparia)
obispalis Dyar, 1906 (Scoparia)
80a1365 S. californialis Munroe, 1972 (Scoparia) 4712
80a1366 S. apachealis Munroe, 1972 (Scoparia) 4713
ssp. a. apachealis Munroe, 1972 (Scoparia)
ssp. b. pinalensis Munroe, 1972 (Scoparia)
ssp. c. utalis Munroe, 1972 (Scoparia)
80a1367 S. ruidosalis Munroe, 1972 (Scoparia) 4714
80a1368 S. blanchardi Munroe, 1972 (Scoparia) 4715
80a1369 S. biplagialis Walker, [1866] (Scoparia) 4716
ssp. a. biplagialis Walker, [1866] (Scoparia)
libella Grote, 1878 (Scoparia)
ssp. b. bellaeislae Munroe, 1972 (Scoparia)
ssp. c. fernaldalis Dyar, 1904 (Scoparia)
ssp. d. pacificalis Dyar, 1921 (Scoparia)
alaskalis Barnes & Benjamin, 1922 (Scoparia)
ssp. e. afognakalis Munroe, 1972 (Scoparia)
80a1370 S. penumbralis Dyar, 1906 (Scoparia) 4717
80a1371 S. cinereomedia Dyar, 1904 (Scoparia) 4718
truncatalis McDunnough, [1923] (Scoparia)
80a1372 S. basalis Walker, [1866] (Scoparia) 4719
80a1373 S. dominicki Munroe, 1972 (Scoparia) 4720
80a1374 S. huachucalis Munroe, 1972 (Scoparia) 4721

Genus EUDONIA Billberg, 1820
BOIEA Zetterstedt, 1839
DASYSCOPA Meyrick, 1894
DIPLEURINA Chapman, 1912
DIPLEURINODES Leraut, 1989
EUDIPLEURINA Leraut, 1989
EUDORIA Chapman, 1912
MALAGEUDONIA Leraut, 1989
VIETTEINA Leraut, 1989
WITLESIA Chapman, 1912

80a1375 E. rectilinea (Zeller, 1874) (Scoparia) 4722
nominatalis (Hulst, 1886) (Scoparia)
refugalis (Hulst, 1886) (Scoparia)
80a1376 E. commortalis (Dyar, 1921) (Scoparia) 4723
80a1377 E. expallidalis (Dyar, 1906) (Scoparia) 4724
rufitinctalis (Hampson, 1907) (Scoparia)
80a1378 E. franciscalis Munroe, 1972 (Eudonia) 4725
80a1379 E. torniplagalis (Dyar, 1904) (Scoparia) 4726
ssp. a. torniplagalis (Dyar, 1904) (Scoparia)
ssp. b. alialis (Barnes & McDunnough, 1912) (Scoparia)
ssp. c. perfectalis Munroe, 1972 (Eudonia)
80a1380 E. albertalis (Dyar, 1929) (Scoparia) 4727
80a1381 E. vivida Munroe, 1972 (Eudonia) 4728
80a1382 E. spaldingalis (Barnes & McDunnough, 1912) (Scoparia) 4729
80a1383 E. spenceri Munroe, 1972 (Eudonia) 4730
80a1384 E. rotundalis Munroe, 1972 (Eudonia) 4731
80a1385 E. franclemonti Munroe, 1972 (Eudonia) 4732
80a1386 E. schwarzalis (Dyar, 1906) (Scoparia) 4733
80a1387 E. leucophthalma (Dyar, 1929) (Scoparia) 4734
ssp. a. leucophthalma (Dyar, 1929) (Scoparia)
ssp. b. petaluma Munroe, 1972 (Eudonia)
80a1388 E. echo (Dyar, 1929) (Scoparia) 4735
ssp. a. echo (Dyar, 1929) (Scoparia)
ssp. b. gartrelli Munroe, 1972 (Eudonia)
80a1389 E. bronzalis (Barnes & Benjamin, 1922) (Scoparia) 4736
80a1390 E. alpina (Curtis, 1850) (Eudorea) H [NEW]
borealis (Tengström, 1848) (Eudorea)
gracilalis (Stainton, 1855) (Eudorea)
japanalpina Inoue, 1982 (Eudonia)

lapponica (Caradja, 1916) (Scoparia)
lugubralis (Walker, [1866]) (Scoparia) *[4737]*
madgei Munroe, 1972 (Eudonia)
persimilalis (McDunnough, 1961) (Eudoria)
phycitinalis (Dyar, 1929) (Scoparia)

80a1391 E. strigalis (Dyar, 1906) (Scoparia) 4738
80a1392 E. heterosalis (McDunnough, 1961) (Eudoria) 4739

Subfamily CRAMBINAE Latreille, 1810

Tribe ANCYLOLOMIINI Ragonot, [1889]

Genus HEMIPLATYTES Barnes & McDunnough, 1924
ID INFO: Dyar & Heinrich (1927).
ALAMOGORDIA Dyar & Heinrich, 1927

80a1393 H. epia (Dyar, 1912) (Diatraea) 5507
damon (Barnes & McDunnough, 1918) (Platytes)
80a1394 H. prosenes (Dyar, 1912) (Diatraea) 5508
80a1395 H. parallela (Kearfott, 1908) (Diatraea) 5509

Genus EUFERNALDIA Hulst, [1901] 1900

80a1396 E. cadarellus (Druce, 1896) (Crambus) 5338
argenteonervella Hulst, [1901] 1900 (Eufernaldia)

Genus PRIONAPTERYX Stephens, 1834
ID INFO (partial): Fernald (1896).
ALLOEA Turner, 1947
CALARINA Walker, 1866
HYPOTOMORPHA Rebel, 1892
LOXOPHANTIS Meyrick, 1935
NAURACE; Munroe, 1983 missp.
NUARACE Walker, 1863
PINDICITORA Walker, 1863
PLATYTESIA Strand, 1918
PRIONOPTERYX; Zeller, 1863 emend.

80a1397 P. santella (Kearfott, 1908) (Surattha) N. COMB. 5326
NOTE: The taxa *santella* and *indentella* are hereby transferred from *Surattha* Walker, 1863 (an Old World genus) to *Prionapteryx* (n. comb.), on the basis of the diagnoses of *Prionapteryx* and *Surattha* given by Bassi (2013).
80a1398 P. indentella (Kearfott, 1908) (Surattha) N. COMB. 5327
NOTE: See note under *P. santella*.
80a1399 P. yavapai (Kearfott, 1908) (Eugrotea) 5332
80a1400 P. nebulifera Stephens, 1834 (Prionapteryx) 5333
80a1401 P. achatina Zeller, 1863 (Prionapteryx) 5334
delectalis (Hulst, 1886) (Crambus)
80a1402 P. cuneolalis (Hulst, 1886) (Crambus) 5335
80a1403 P. serpentella Kearfott, 1908 (Prionapteryx) 5336

Genus MESOLIA Ragonot, [1889]
DEUTEROLIA Dyar, 1914
EUGROTEA Fernald, 1896
EUPAROLIA Dyar, 1914

80a1404 M. baboquivariella (Kearfott, 1907) (Prionapteryx) 5328
80a1405 M. oraculella Kearfott, 1908 (Mesolia) 5329
80a1406 M. huachucaella Kearfott, 1908 (Mesolia) [NEW]
huachucella; Klots, 1983 (Mesolia) missp. *[5330]*
80a1407 M. incertellus (Zincken, 1821) (Chilo) 5331
dentella (Fernald, 1896) (Eugrotea)
olivella (Grote, 1882) (Prionapteryx)

Genus PSEUDOSCHOENOBIUS Fernald, 1891
ID INFO: Fernald (1896).
NOTE: This genus name is available, according to ICZN part 12.2.5 (the actual description was published in 1896).

80a1408 P. opalescalis (Hulst, 1886) (Schoenobius) 5337
griseosparsa (Hampson, 1896) (Prionapteryx)

Tribe HAIMBACHIINI Landry, 1995
ID INFO (partial): Dyar & Heinrich (1927).

Genus THOPEUTIS Hübner, 1818
ID INFO: Fernald (1896).
CEPHIS Ragonot, 1892
HOMBERGIA Joannis, 1910
STENOCHILO Hampson, 1896
TETRACHILA Hübner, 1808

80a1409 T. forbesellus (Fernald, 1896) (Chilo) 5473

Genus OCCIDENTALIA Dyar & Heinrich, 1927
ID INFO: Dyar & Heinrich (1927).

80a1410 O. comptulatalis (Hulst, 1886) (Crambus) 5474

Genus XUBIDA Schaus, 1922
ID INFO: Klots (1970).

80a1411 X. linearellus (Zeller, 1863) (Crambus) 5499
multilineatella (Hulst, 1887) (Spermatophthora)
80a1412 X. panalope (Dyar, 1917) (Platytes) 5500
acerata (Dyar, 1917) (Platytes)
NOTE: Although *acerata* appears first in Dyar's publication, Klots (1970) maintained *X. panalope* as valid.
80a1413 X. relovae Klots, 1970 (Xubida) 5501
80a1414 X. punctilineella (Barnes & McDunnough, 1913) (Platytes) 5502
80a1415 X. lipan Klots, 1970 (Xubida) 5503
80a1416 X. dentilineatella (Barnes & McDunnough, 1913) (Platytes) 5504
80a1417 X. puritellus (Kearfott, 1908) (Chilo) 5505
dinephelalis (Dyar, 1917) (Platytes)
80a1418 X. chiloidellus (Barnes & McDunnough, 1913) (Crambus) 5506

Genus HAIMBACHIA Dyar, 1909
ID INFO: Dyar & Heinrich (1927), Capps (1965).

80a1419 H. squamulellus (Zeller, 1881) (Chilo) 5482
80a1420 H. arizonensis Capps, 1965 (Haimbachia) 5483
80a1421 H. pallescens Capps, 1965 (Haimbachia) 5484
80a1422 H. indistinctalis Capps, 1965 (Haimbachia) 5485
80a1423 H. discalis Dyar & Heinrich, 1927 (Haimbachia) 5486
80a1424 H. floridalis Capps, 1965 (Haimbachia) 5487
80a1425 H. albescens Capps, 1965 (Haimbachia) 5488
80a1426 H. placidellus (Haimbach, 1907) (Crambus) 5489
80a1427 H. cochisensis Capps, 1965 (Haimbachia) 5490
80a1428 H. diminutalis Capps, 1965 (Haimbachia) 5491
80a1429 H. gloriella Schaus, 1922 (Haimbachia) [NEW]
NOTE: Recent addition of this overlooked species; a specimen in CAS, collected by E. P. Van Duzee at Badger, Santa Cruz Co., AZ, 31 July 1924, was dissected by A. B. Klots.

Genus EOREUMA Ely, 1910
ID INFO: Klots (1970).

80a1430 E. densellus (Zeller, 1881) (Chilo) 5492
80a1431 E. loftini (Dyar, 1917) (Chilo) 5493
opinionellus (Dyar, 1917) (Chilo)
NOTE: Although *opinionellus* appears first in Dyar's publication, Klots (1970) maintained *E. loftini* as valid.
80a1432 E. evae Klots, 1970 (Eoreuma) 5494
80a1433 E. confederata Klots, 1970 (Eoreuma) 5495
80a1434 E. multipunctellus (Kearfott, 1908) (Chilo) 5496
80a1435 E. callista Klots, 1970 (Eoreuma) 5497
80a1436 E. crawfordi Klots, 1970 (Eoreuma) 5498
80a1437 E. arenella Blanchard & Knudson, 1983 (Eoreuma) [NEW]

Genus EPINA Walker, 1866
ID INFO: Dyar & Heinrich (1927).
NOTE: Correct placement is in Haimbachiini per JEH.
DIATRAENOPSIS Dyar & Heinrich, 1927

80a1438 E. dichromella Walker, 1866 (Epina) 5468
differentialis (Fernald, 1888) (Diatraea)
matanzalis (Schaus, 1922) (Chilo)
80a1439 E. alleni (Fernald, 1888) (Diatraea) 5469

Tribe CHILOINI Heinemann, 1865
ID INFO: Dyar & Heinrich (1927).

Genus CHILO Zincken, 1817
ID INFO: Bleszynski (1970).
BORER Guenée, 1862
CHILONA Sodoffsky, 1837
CHILOTRAEA Kapur, 1950
DIPHRYX Grote, 1881
HYPIESTA Hampson, 1919
NEPHALIA Turner, 1911
SILVERIA Dyar, 1925

80a1440 C. plejadellus Zincken, 1821 (Chilo) 5470
oryzaeelus Riley, 1882 (Chilo)

prolatella (Grote, 1881) (Diphryx)
sabulifera (Walker, 1863) (Jartheza)

80a1441 C. erianthalis Capps, 1963 (Chilo) 5471
80a1442 C. demotella Walker, 1866 (Chilo) 5472
fernaldalis Dyar & Heinrich, 1927 (Chilo)
idalis (Fernald, 1896) (Diatraea)

Genus DIATRAEA Guilding, 1832
ID INFO: Dyar & Heinrich (1927).
CRAMBIDIATRAEA Box & Capps, 1955
DIATRAERUPA Schaus, 1913
EODIATRAEA Box, 1953
IESTA Dyar, 1909
TRINIDADIA Dyar & Heinrich, 1927
ZEADIATRAEA Box, 1905

80a1443 D. saccharalis (Fabricius, 1794) (Phalaena) I 5475
NOTE: This Neotropical species first appeared in NA in LA in the 1850s (contributed by JDY).
brasiliensis Gorkum & Waal, 1913 (Diatraea)
continens Dyar, 1911 (Diatraea)
grenadensis Dyar, 1911 (Diatraea)
incomparella Dyar & Heinrich, 1927 (Diatraea)
leucaniellus (Walker, 1863) (Crambus)
lineosellus (Walker, 1863) (Crambus)
obliteratellus (Zeller, 1863) (Chilo)
pedidocta Dyar, 1911 (Diatraea)
80a1444 D. crambidoides (Grote, 1880) (Chilo) 5476
tripsacicola Dyar, 1921 (Diatraea)
zeacolella Dyar, 1911 (Diatraea)
80a1445 D. mitteri Solis, 2015 (Diatraea) [NEW]
80a1446 D. venosalis (Dyar, 1917) (Haimbachia) 5477
80a1447 D. evanescens Dyar, 1917 (Diatraea) 5478
sobrinalis Schaus, 1922 (Diatraea)
80a1448 D. grandiosella Dyar, 1911 (Diatraea) 5479
80a1449 D. lineolata (Walker, 1856) (Leucania) 5480
culmicolellus (Zeller, 1863) (Chilo)
neuricellus (Zeller, 1863) (Chilo)
pallidostricta Dyar, 1911 (Diatraea)
80a1450 D. lisetta (Dyar, 1909) (Iesta) 5481
adulcia (Dyar, 1916) (Iesta)
cancellalis (Dyar, 1914) (Iesta)

Tribe ARGYRIINI Munroe, 1995

Genus ARGYRIA Hübner, 1818
ID INFO (partial): Martinez & Brown (2007), Landry et al. (2023).

80a1451 A. subaenescens (Walker, 1863) (Urola) 5461
fuscipes (Zeller, 1863) (Catharylla)
80a1452 A. rufisignella (Zeller, 1872) (Catharylla) 5462
rileyella Dyar, 1913 (Argyria)
80a1453 A. lacteella (Fabricius, 1794) (Tinea) 5463
abronalis (Walker, 1859) (Zebronia?)
albana (Fabricius, 1798) (Pyralis)
lusella (Zeller, 1863) (Catharylla)
multifacta Dyar, 1914 (Argyria)
vestalis Butler, 1878 (Argyria)
80a1453.1 A. gonogramma Dyar, 1915 (Argyria) [NEW]
NOTE: This species was raised from synonymy with *A. lacteellla* by Landry et al. (2023).
pusillalis Hübner, 1818 (Argyria) nom. dub.
pussillalis; Hübner, 1818 (Argyria) orig. missp.
80a1453.2 A. centrifugens Dyar, 1914 (Argyria) STRAY [NEW]
NOTE: The sole known NA record of this otherwise Caribbean species is a specimen from Largo, FL, collected in 1995 by J. G. Filiatrault, found in the FSCA and identified by JEH (Landry et al. 2023). It is treated herein as a stray.
80a1454 A. nummulalis Hübner, 1818 (Argyria) 5460
argentana Fernald, 1896 (Argyria)
argentana (Martyn, 1797) (Phalaena)
80a1455E A. contiguella (Zeller, 1872) (Catharylla) EXCL. [NEW]
NOTE: Listed by Poole & Gentili (1996) but excluded from the NA fauna by Scholtens & Solis (2015). Genus placement is uncertain.

Genus UROLA Walker, 1863
ID INFO: Martinez & Brown (2007).

80a1456 U. nivalis (Drury, 1773) (Phalaena) 5464
argentata (Emmons, 1854) (Geometra)
microchrysella Walker, 1863 (Urola)

Tribe CALAMOTROPHINI Gaskin, 1988

Genus VAXI Bleszynski, 1962
ID INFO: Martinez & Brown (2007).
NOTE: Species of *Vaxi* are placed in Calamotrophini based on the elongate palpi, forewing Rs4 stalked with Rs2 and Rs3, and genitalic characters. Additionally, molecular evidence separates them from Argyriini (Léger et al. 2019).

80a1457 V. auratellus (Clemens, 1860) (Crambus) 5465
pulchella (Walker, 1863) (Urola)
80a1458 V. critica (Forbes, 1920) (Argyria) 5466
80a1459 V. tripsacas (Dyar, 1921) (Crambus) 5467

Tribe DIPTYCHOPHORINI Gaskin, 1972

Genus DIPTYCHOPHORA Zeller, 1866
COLIMEA Dyar, 1925
MYSTICOMIMA Meyrick, 1931
SCISSOLIA Barnes & McDunnough, 1914

80a1460 D. harlequinalis (Barnes & McDunnough, 1914) (Scissolia) 5458
80a1461 D. incisalis (Dyar, 1925) (Colimaea) 5459

Genus MICROCAUSTA Hampson, 1895

80a1462 M. flavipunctalis Barnes & McDunnough, 1913 (Microcausta) 5456
80a1463 M. bipunctalis Barnes & McDunnough, 1914 (Microcausta) 5457

Tribe EUCHROMIUSINI Léger, Landry & Nuss, 2019

Genus EUCHROMIUS Guenée, 1845
ID INFO: Capps (1966), Schouten (1992).
EROMENE Hübner, [1825]
OMMATOPTERYX Kirby, 1897
PSEUDOANCYLOLOMIA Ahmad, Zaidi & Kamaluddin, 1982

80a1464 E. ocellea (Haworth, 1811) (Palparia) I 5454
NOTE: Introduced from southern Europe over a century ago (Fernald 1896).
cyrilli (Costa, 1829) (Crambus)
funiculella (Treitschke, 1832) (Phycis)
gigantea (Turati, 1924) (Eromene)
qadrii (Ahmad, Zaidi & Kamaluddin, 1982) (Pseudoancylolomia)
texana (Robinson, 1870) (Eromene)
80a1465 E. californicalis (Packard, 1873) (Eromene) 5455

Tribe CRAMBINI Latreille, 1810

Genus PLATYTES Guenée, 1845
ID INFO: Landry (1995).
NAGAHAMA Marumo, 1933

80a1466 P. vobisne Dyar, 1920 (Platytes) 5394

Genus CATOPTRIA Hübner, [1825]
ID INFO: Fernald (1896).
EXORIA Hübner, [1825]
TETRACHILA Hübner, 1806

80a1467 C. trichostomus (Christoph, 1858) (Crambus) H 5406
albisinuatella (Packard, 1867) (Eudorea)
tristis Kirpichnikova, 1994 (Catoptria)
80a1468 C. maculalis (Zetterstedt, 1839) (Scopula) H 5407
albimaculella (Burmann, 1948) (Crambus)
albisignata (Burmann, 1948) (Crambus)
cacuminellus (Zeller, 1850) (Crambus)
80a1469 C. latiradiellus (Walker, 1863) (Crambus) 5408
interruptus (Grote, 1877) (Crambus)
luctuellus of authors; (not Herrich-Schäffer, [1855]) (Crambus) misappl.
myellus of authors; (not Hübner, 1796) (Crambus) misappl.
80a1470 C. oregonicus (Grote, 1880) (Crambus) 5409
bartellus (Barnes & McDunnough, 1918) (Crambus)

Genus THAUMATOPSIS Morrison, 1874
ID INFO: Fernald (1896).
PROPEXUS Grote, 1880

Thaumatopsis pexellus group Landry, 1995

80a1471 T. edonis (Grote, 1880) (Crambus) 5438
80a1472 T. pexellus (Zeller, 1863) (Crambus) 5439
ssp. a. pexellus (Zeller, 1863) (Crambus)
longipalpus Morrison, 1875 (Thaumatopsis)
macropterellus (Zeller, 1863) (Crambus)
ssp. b. gibsonella Kearfott, 1908 (Thaumatopsis)
ssp. c. coloradella Kearfott, 1908 (Thaumatopsis)
ssp. d. strictalis (Dyar, 1914) (Ubida)
idion Dyar, 1919 (Thaumatopsis)
80a1473 T. magnificus (Fernald, 1891) (Propexus) 5440

Thaumatopsis fernaldella group Landry, 1995

80a1474 T. fernaldella Kearfott, 1905 (Thaumatopsis) 5441
ssp. a. fernaldella Kearfott, 1905 (Thaumatopsis)
ssp. b. nortella Kearfott, 1905 (Thaumatopsis)
ssp. c. lagunella Dyar, 1912 (Thaumatopsis)
80a1475 T. atomosella Kearfott, 1908 (Thaumatopsis) 5442
80a1476 T. floridella Barnes & McDunnough, 1913 (Thaumatopsis) [NEW]
floridalis; Klots, 1983 (Thaumatopsis) missp. [5443]
80a1477 T. fieldella Barnes & McDunnough, 1912 (Thaumatopsis) 5444

Thaumatopsis bolterellus group Landry, 1995

80a1478 T. repandus (Grote, 1880) (Crambus) 5445
80a1479 T. crenulatella Kearfott, 1908 (Thaumatopsis) 5446
80a1480 T. digrammellus (Hampson, 1919) (Crambus) [NEW]
80a1481 T. bolterellus (Fernald, 1887) (Crambus) 5452

Thaumatopsis pectinifer group Landry, 1995

80a1482 T. pectinifer (Zeller, 1877) (Crambus) 5447
80a1483 T. actuellus Barnes & McDunnough, 1918 (Thaumatopsis) 5448
80a1484 T. solutellus (Zeller, 1863) (Crambus) 5449
daeckeellus Kearfott, 1903 (Thaumatopsis)
striatellus Fernald, 1896 (Thaumatopsis)

Genus TEHAMA Hulst, 1888
ID INFO: Landry (1995).

80a1485 T. bonifatella (Hulst, 1887) (Spermatophthora) 5453
inornatellus (Walker, 1863) (Crambus)
nevadellus (Kearfott, 1908) (Crambus)

Genus FISSICRAMBUS Bleszynski, 1963
ID INFO: Fernald (1896).

80a1486 F. quadrinotellus (Zeller, 1877) (Crambus) 5385
80a1487 F. fissiradiellus (Walker, 1863) (Crambus) 5430
curtellus (Walker, 1863) (Crambus)
gestatellus (Möschler, 1890) (Crambus)
80a1488 F. profanellus (Walker, 1866) (Crambus) 5431
80a1489 F. intermedius (Kearfott, 1908) (Crambus) 5432
80a1490 F. haytiellus (Zincken, 1821) (Chilo) 5433
80a1491 F. hemiochrellus (Zeller, 1877) (Crambus) 5434
80a1492 F. mutabilis (Clemens, 1860) (Crambus) 5435
fuscicostellus (Zeller, 1863) (Crambus)
80a1493 F. minuellus (Walker, 1863) (Crambus) 5437
habanella (Schaus, 1922) (Culladia)
santagellus; [Pohl], 2016 (Fissicrambus) missp.
santiagellus (Schaus, 1922) (Crambus)
80a1494 F. albilineellus (Fernald, 1893) (Crambus) 5384

Genus MICROCRAMBUS Bleszynski, 1963
ID INFO: Klots (1968).
MICROCRAMBOIDES Bleszynski, 1967
TORTRICULLADIA Bleszynski, 1967

80a1495 M. copelandi Klots, 1968 (Microcrambus) 5418
80a1496 M. biguttellus (Forbes, 1920) (Crambus) 5419
80a1497 M. elegans (Clemens, 1860) (Crambus) 5420
terminellus (Zeller, 1863) (Crambus)
80a1498 M. polingi (Kearfott, 1908) (Crambus) 5421
80a1499 M. minor (Forbes, 1920) (Crambus) 5422
80a1500 M. discludellus (Möschler, 1890) (Crambus) 5423
discobolus Bleszynski, 1963 (Microcrambus)
domingellus (Schaus, 1922) (Crambus)
micralis (Hampson, 1919) (Crambus)
80a1501 M. kimballi Klots, 1968 (Microcrambus) 5424
80a1502 M. matheri Klots, 1968 (Microcrambus) 5425
80a1503 M. croesus Bleszynski, 1967 (Microcrambus) 5426

Genus LOXOCRAMBUS Forbes, 1920

80a1504 L. coloradellus (Fernald, 1893) (Crambus) 5387
80a1505 L. canellus Forbes, 1920 (Loxocrambus) 5427
80a1506 L. mohaviellus Forbes, 1920 (Loxocrambus) 5428
80a1507 L. awemensis McDunnough, 1929 (Loxocrambus) 5429
80a1508 L. hospition (Bleszynski, 1963) (Fissicrambus) 5436

Genus NEODACTRIA Landry, 1995
ID INFO: Fernald (1896); also Landry & Brown (2005).

80a1509 N. luteolellus (Clemens, 1860) (Crambus) 5379
ssp. a. luteolellus (Clemens, 1860) (Crambus)
duplicatus (Grote, 1880) (Crambus)
holochrellus (Fernald, 1896) (Crambus)
ssp. b. refotalis (Hulst, 1886) (Crambus)
edredellus (Schaus, 1922) (Crambus)
ulae (Cockerell, 1888) (Crambus)
80a1510 N. zeellus (Fernald, 1885) (Crambus) 5380
80a1511 N. caliginosellus (Clemens, 1860) (Crambus) 5381
80a1512 N. murellus (Dyar, 1904) (Crambus) 5382
simpliciellus (Kearfott, 1908) (Crambus)
80a1513 N. modestellus (Barnes & McDunnough, 1918) (Crambus) 5383
80a1514 N. glenni Landry & Klots, 2002 (Neodactria) [NEW]
80a1515 N. daemonis Landry & Klots, 2005 (Neodactria) [NEW]
80a1516 N. oktibbeha Landry & Brown, 2005 (Neodactria) [NEW]
80a1517 N. cochisensis Landry & Albu, 2012 (Neodactria) [NEW]

Genus AREQUIPA Walker, 1863
ID INFO: Landry (1995).

80a1518 A. turbatella Walker, 1863 (Arequipa) 5392
bipunctellus (Zeller, 1863) (Crambus)

Genus PEDIASIA Hübner, [1825]
ID INFO (partial): Fernald (1896), Klots (1942).
CARVANCA Walker, 1856
OSERIATES Fazekas, 1991
PSEUDOPEDIASIA Ganev, 1987

80a1519 P. aridella (Thunberg, 1794) (Tinea) extralim. H/I 5410
ssp. a. edmontellus (McDunnough, 1923) (Crambus)
80a1520 P. truncatellus (Zetterstedt, 1839) (Chilo) 5411
abtrusellus (Walker, 1863) (Crambus)
lienigiellus (Zeller, 1843) (Crambus)
obtrusella; Klots, 1983 (Pediasia) missp.
rufinalis (Walker, [1866]) (Hypena)
80a1521 P. browerellus (Klots, 1942) (Crambus) 5412
ssp. a. browerellus (Klots, 1942) (Crambus)
ssp. b. katahdini (Klots, 1942) (Crambus)
80a1522 P. trisecta (Walker, 1856) (Carvanca) 5413
biliturellus (Zeller, 1874) (Crambus)
exsiccatus (Zeller, 1863) (Crambus)
fuscisquamellus (Zeller, 1863) (Crambus)
interminellus (Walker, 1863) (Crambus)
80a1523 P. laciniellus (Grote, 1880) (Crambus) 5414
80a1524 P. ericellus (Barnes & McDunnough, 1918) (Crambus) 5415
80a1525 P. abnaki (Klots, 1942) (Crambus) 5416
80a1526 P. dorsipunctellus (Kearfott, 1908) (Crambus) 5417
geminatellus (Zeller, 1863) (Crambus)

Genus LA Bleszynski, 1966
ID INFO: Landry (1995).

80a1527 L. cerveza Landry, 1995 (La) [NEW]

Genus PARAPEDIASIA Bleszynski, 1966
ID INFO (partial): Fernald (1896), Landry (1995).
PARAPEDIASIA Bleszynski, 1963

80a1528 P. decorellus (Zincken, 1821) (Chilo) 5450

bonusculalis (Hulst, 1886) (Crambus)
goodellianus (Grote, 1880) (Crambus)
polyactinellus (Zeller, 1863) (Crambus)

80a1529 P. teterrellus (Zincken, 1821) (Chilo) 5451
camurellus (Clemens, 1860) (Crambus)
80a1530 P. ligonellus (Zeller, 1881) (Crambus) [NEW]
80a1531 P. torquatella Landry, 1995 (Parapediasia) [NEW]
80a1532 P. hulstellus (Fernald, 1885) (Crambus) 5386

Genus ALMITA Landry, 1995
ID INFO: Landry (1995).

80a1533 A. portalia Landry, 1995 (Almita) [NEW]
80a1534 A. texana Landry, 1995 (Almita) [NEW]

Genus RAPHIPTERA Hampson, 1896
ID INFO: Landry (1995).

80a1535 R. argillaceellus (Packard, 1867) (Crambus) 5393
ssp. a. argillaceellus (Packard, 1867) (Crambus)
ssp. b. minimellus (Robinson, 1870) (Crambus)

Genus AGRIPHILA Hübner, [1825]
ID INFO (partial): Fernald (1896).
ALISA Ganev & Hacker, 1984

80a1536 A. biarmicus (Tengström, 1865) (Crambus) extralim. H 5395
ssp. a. paganellus (McDunnough, 1925) (Crambus)
80a1537 A. straminella ([Denis & Schiffermüller], 1775) (Tinea) H 5396
marginellus (Stephens, 1834) (Crambus)
subarcticellus (Strand, 1920) (Crambus)
80a1538 A. plumbifimbriellus (Dyar, 1904) (Crambus) 5397
80a1539 A. costalipartella (Dyar, 1921) (Crambus) 5398
80a1540 A. ruricolellus (Zeller, 1863) (Crambus) 5399
canadellus (Haimbach, 1930) (Crambus)
80a1541 A. undatus (Grote, 1881) (Crambus) 5400
80a1542 A. anceps (Grote, 1880) (Crambus) 5401
80a1543 A. biothanatalis (Hulst, 1886) (Crambus) 5402
behrensellus (Fernald, 1887) (Crambus)
biotanathalis; Bleszynski & Collins, 1962 (Agriphila) missp.
80a1544 A. vulgivagellus (Clemens, 1860) (Crambus) 5403
aurifimbrialis (Walker, 1863) (Crambus)
chalybirostris (Zeller, 1863) (Crambus)
80a1545 A. attenuatus (Grote, 1880) (Crambus) 5404

Genus FERNANDOCRAMBUS Aurivillius, 1922
JUANIA Aurivillius, 1922

80a1546 F. harpipterus (Dyar, 1916) (Crambus) 5389
80a1547 F. ruptifascia (Hampson, 1919) (Crambus) 5390

Genus CHRYSOTEUCHIA Hübner, [1825]
ID INFO: Landry (1995).
AMPHIBOLIA Snellen, 1884
VERONESE Bleszynski, 1962

80a1548 C. topiarius (Zeller, 1866) (Crambus) 5391
ssp. a. topiarius (Zeller, 1866) (Crambus)
ssp. b. vachellellus (Kearfott, 1903) (Crambus)
hortuellus of authors; (not Hübner, 1796) (Crambus) misappl.

Genus CRAMBUS Fabricius, 1798
ID INFO: Fernald (1896); also Klots (1940, 1942).
ARGYROTEUCHIA Hübner, [1825]
CHILUS Billberg, 1820
PALPARIA Haworth, 1811
TETRACHILA Hübner, 1822

80a1549 C. pascuella (Linnaeus, 1758) (Phalaena) extralim. H 5339
pascualis; Hübner, 1825 (Crambus) emend.
ssp. a. floridus Zeller, 1872 (Crambus)
80a1550 C. hamella (Thunberg, 1794) (Tinea) extralim. H 5340
ssp. a. carpenterellus Packard, 1874 (Crambus)
80a1551 C. alienellus (Germar & Kaulfuss, 1817) (Chilo) extralim. H 5341
ssp. a. labradoriensis Christoph, 1858 (Crambus)
moestellus Walker, 1863 (Crambus)
ssp. b. dissectus Grote, 1880 (Crambus)
80a1552 C. bidens Zeller, 1872 (Crambus) 5342
80a1553 C. perlella (Scopoli, 1763) (Phalaena) extralim. H 5343
ssp. a. innotatellus Walker, 1863 (Crambus)
inornatellus Clemens, 1864 (Crambus)
sericinellus Zeller, 1863 (Crambus)
80a1554 C. unistriatellus Packard, 1867 (Crambus) 5344
exesus Grote, 1880 (Crambus)
80a1555 C. whitmerellus Klots, 1942 (Crambus) 5345
ssp. a. whitmerellus Klots, 1942 (Crambus)
dumetella of authors; (not Hübner, 1813) (Tinea) misappl.
ssp. b. browni Klots, 1942 (Crambus)
80a1556 C. tutillus McDunnough, 1921 (Crambus) 5346
80a1557 C. awemellus McDunnough, 1921 (Crambus) 5347
80a1558 C. lyonsellus Haimbach, 1915 (Crambus) 5348
80a1559 C. youngellus Kearfott, 1908 (Crambus) 5349
80a1560 C. daeckellus Haimbach, 1907 (Crambus) 5350
80a1561 C. gausapalis Hulst, 1886 (Crambus) 5351
80a1562 C. trichusalis Hulst, 1886 (Crambus) 5352
80a1563 C. cockleellus Kearfott, 1908 (Crambus) 5353
80a1564 C. ainslieellus Klots, 1942 (Crambus) [NEW]
ainsliellus; Klots, 1983 (Crambus) missp. *[5354]*
80a1565 C. praefectellus (Zincken, 1821) (Chilo) 5355
ssp. a. praefectellus (Zincken, 1821) (Chilo)
involutellus Clemens, 1860 (Crambus)
ssp. b. oslarellus Haimbach, 1908 (Crambus)
80a1566 C. bigelovi Klots, 1967 (Crambus) 5356
80a1567 C. leachellus (Zincken, 1818) (Chilo) 5357
hastiferellus Walker, 1863 (Crambus)
lativittellus Zeller, 1863 (Crambus)
pulchellus Zeller, 1863 (Crambus)
80a1568 C. cypridalis Hulst, 1886 (Crambus) 5358
80a1569 C. occidentalis Grote, 1880 (Crambus) 5359
agricolellus Dyar, 1923 (Crambus)
80a1570 C. rickseckerellus Klots, 1940 (Crambus) 5360
80a1571 C. albellus Clemens, 1860 (Crambus) 5361
80a1572 C. agitatellus Clemens, 1860 (Crambus) 5362
alboclavellus Zeller, 1863 (Crambus)
carolinellus Haimbach, 1915 (Crambus)
80a1573 C. saltuellus Zeller, 1863 (Crambus) 5363
80a1574 C. multilinellus Fernald, 1887 (Crambus) 5364
80a1575 C. girardellus Clemens, 1860 (Crambus) 5365
nivihumellus Walker, 1863 (Crambus)
80a1576 C. watsonellus Klots, 1942 (Crambus) 5366
80a1577 C. sanfordellus Klots, 1942 (Crambus) 5367
80a1578 C. braunellus Klots, 1940 (Crambus) 5368
80a1579 C. quinquareatus Zeller, 1877 (Crambus) 5369
argentictus Hampson, 1919 (Crambus)
extorralis Hulst, 1886 (Crambus)
80a1580 C. sperryellus Klots, 1940 (Crambus) 5370
80a1581 C. leuconotus Zeller, 1881 (Crambus) 5371
80a1582 C. satrapellus (Zincken, 1821) (Chilo) 5372
aculeilellus Walker, 1863 (Crambus)
aureorufus Hampson, 1919 (Crambus)
elegantellus Walker, 1863 (Crambus)
80a1583 C. cyrilellus Klots, 1942 (Crambus) 5373
80a1584 C. harrisi Klots, 1967 (Crambus) 5374
80a1585 C. johnsoni Klots, 1942 (Crambus) 5375
80a1586 C. sargentellus Klots, 1942 (Crambus) 5376
80a1587 C. angustexon Bleszynski, 1962 (Crambus) 5377
80a1588 C. laqueatellus Clemens, 1860 (Crambus) 5378
semifusellus Walker, 1863 (Crambus)

Genus "CRAMBUS" Fabricius, 1798 PROV. PL.

80a1589 C. dimidiatellus Grote, 1883 (Crambus) mispl. 5388
NOTE: Listed as "misplaced" in *Crambus* by Munroe (in Hodges et al. 1983).
leucorhabdon Hampson, 1919 (Crambus)
80a1590 C. angulatus Barnes & McDunnough, 1918 (Crambus) mispl. 5405
NOTE: Listed as "misplaced" in *Agriphila* by Munroe (in Hodges et al. 1983).
diegonellus Dyar, 1923 (Crambus)

Superfamily MIMALLONOIDEA Burmeister, 1878

78. Family MIMALLONIDAE Burmeister, 1878 (sack-bearer moths)

by Ryan A. St Laurent

Mimallonidae are medium sized moths, ranging from 20 to 50 mm in wingspan in NA. Although the two genera present in our region are quite distinct, they can be recognized by their unique resting posture, with the body held tightly to the substrate, the abdomen turned upward, and the wings held downwards below the plane of the body, seemingly hugging the resting surface.

The larvae build shelters from silk, frass, and plant material. The case is carried around with the later instar larvae and is fastened to the host plant with strong silk during feeding. Early instar *Lacosoma* construct a hammocklike network of silk and frass over the center of a leaf, feeding on the leaf surface below, whereas early instar *Cicinnus* live between leaves that are stitched together.

Mimallonidae have long been recognized as a distinct group, but their higher placement has been controversial in the past, often being associated with or placed in Bombycoidea. Recent genetic work has conclusively shown that these unique moths form a lineage sister to all Macroheterocera (Bazinet et al. 2013; Kawahara & Breinholt 2014; Timmermans et al. 2014; Breinholt et al. 2018; Kawahara et al. 2019). Most synapomorphies of Mimallonidae are based on immatures: the flattened anal plate of the larva and a dorsal groove along the abdomen of the pupa are among the most prominent characters. The adults are not unlike Old World Bombycidae and Endromidae in external appearance, size, and shape, but can be recognized by wing venation.

Recent systematic and taxonomic work has ensured that the classification is now reasonably well-understood (St Laurent et al. 2018; St Laurent & Kawahara 2019; St Laurent et al. 2020a). Three of the five NA species are well represented in natural history collections and are known to feed on oaks (*Quercus* spp.; Fagaceae) (the life histories of the rarely collected *Lacosoma elassa* and recently described *Cicinnus chambersi* are not known).

Franclemont (1973a) treated the NA Mimallonidae, and one species has been described since then (St Laurent et al. 2020b). Dyar (1900), St Laurent & Carvalho (2017), and St Laurent et al. (2017) have published on the life histories of three of the NA species. Recently St Laurent et al. (2018) defined six subfamilies and several tribes, and revised the internal classification of Mimallonidae for the first time since Schaus (in Seitz [1928]). Two additional subfamilies were defined later by St Laurent et al. (2020a). About 300 species of Mimallonidae are known globally, five of which occur in NA. They are restricted to the Americas and are found primarily in the tropics.

Subfamily LACOSOMINAE Dyar, 1893

Tribe LACOSOMINI Dyar, 1893

Genus LACOSOMA Grote, 1864
NANITETA Franclemont, 1973

830001 L. chiridota Grote, 1864 (Lacosoma) 7659
830002 L. arizonicum Dyar, 1898 (Lacosoma) 7660
830003 L. elassa (Franclemont, 1973) (Naniteta) 7661
NOTE: *Naniteta* was synonymized with *Lacosoma* by St Laurent et al. (2018) and *N. elassa* transferred accordingly.

Subfamily CICINNINAE Schaus, 1912

Tribe CICINNINI Schaus, 1912

Genus CICINNUS Blanchard, 1852
ID INFO: St Laurent et al. (2020b).
PEROPHORA Harris, 1841
PTOCHOPSYCHE Grote, 1896
SACCOPHORA Harris, in: Doubleday, 1841

830003.1 C. chambersi St Laurent, Reeves & Kawahara, 2020 (Cicinnus) [NEW]
830004 C. melsheimeri (Harris, in: Doubleday, 1841) (Saccophora) 7662
egenaria (Walker, 1866) (Arhodia)
melsheimerii (Harris, 1841) (Perophora)
primolus Schaus, 1928 (Cicinnus)

clade MACROHETEROCERA Chapman, 1893 (all groups following)

Superfamily DREPANOIDEA Boisduval, 1828

79. Family DOIDAE Donahue & Brown, 1987 (euphorbia moths)

by B. Christian Schmidt

Doidae, the euphorbia moths, are a small family of medium-sized moths that are endemic to the New World. The forewings have minimal patterning with a ground color ranging from white to fuscous grey, and wingspans of 20 to 40 mm. Larvae are brightly colored and probably aposematic since they feed on euphorbia plants (Euphorbiaceae) known for their production of toxic latex. The taxonomy and biology of NA species was recently reviewed in detail by Miller et al. (2018). Only two genera are recognized in the family, and they are both represented in southwestern NA.

The systematic position of the Doidae within Lepidoptera has been contentious. Doidae were variously assigned as subordinate within Geometridae, Notodontidae, or Erebidae, and superfamily placement has been within Geometroidea or Noctuoidea. Until recently, Doidae were treated as a distinct family within the Noctuoidea (Donahue & Brown, in: Stehr et al. 1987; Kitching & Rawlins 1999), based on several significant morphological characters, particularly the position of the tympanum. Unlike all Geometroidea (which have an abdominal tympanum), Doidae have a metathoracic tympanum like that found in the Noctuoidea. The surprising discovery, based on molecular data, that Doidae place firmly within the Drepanoidea rather than the Noctuoidea has led to acceptance of Doidae as the sister group of Drepanidae. The novel evolutionary position of the Doidae within Drepanoidea was first suggested by Regier et al. (2009) and corroborated by subsequent independent studies; a thorough review of the classification of the Doidae is provided by Miller et al. (2018). Three species are known in NA.

Genus DOA Neumoegen & Dyar, 1894
ID INFO: Miller et al. (2018).

850001	D. ampla (Grote, 1878) (Emydia)	8041
850001.1	D. dora Neumoegen & Dyar, 1894 (Doa)	[NEW]

Genus LEUCULODES Dyar, [1903] 1902
ID INFO: Miller et al. (2018).

850002	L. lacteolaria (Hulst, 1886) (Leucula) *lacteolata; (Hulst, 1896) (Leucula) missp.*	8042

80. Family DREPANIDAE Boisduval, 1828 (lutestrings and hook-tips)

by B. Christian Schmidt

Drepanidae consists of medium-sized moths (30 to 45 mm wingspan) divided into two externally dissimilar subfamilies united by the presence of a tympanum between abdominal tergite 1 and sternum 2. A third subfamily, Cyclidiinae, does not occur in the New World. The Thyatirinae was long considered a family in its own right, and they are more similar superficially to Noctuoidea as adults and larvae. Drepaninae resemble geometrids in build and posture, being broad-winged with slender bodies and having a resting posture with the wings held to the side of the body. Some species have distinct, falcate forewing tips, hence the common name. Larvae of both groups feed primarily on the leaves of deciduous trees and shrubs. Larvae of some species have been studied for their unique communication using vibration (e.g., Yadav et al. 2017).

There are approximately 650 species of drepanids worldwide (Minet & Scoble 1999), with the highest diversity in tropical Asia, but the family is essentially absent in the Neotropics. Few species are found in the New World, with 20 species in NA; they are most diverse in mesic deciduous forest habitats. The NA Drepanidae fauna is sorely understudied, and there are no recent taxonomic treatments encompassing them, with Forbes (1923) still being the most complete work. Clarke & Benjamin (1938) reviewed the genus *Ceranemota*. Werny (1966) examined the tribal classification of the Thyatirinae.

Subfamily THYATIRINAE Smith, 1893

Tribe HABROSYNINI Werny, 1966

Genus HABROSYNE Hübner, 1821
GONOPHORA Bruand, 1845

850003 H. scripta (Gosse, 1840) (Thyatira) 6235
NOTE: There is no discernible geographic or molecular variation in *H. scripta* and formerly recognized subspecies *abrasoides* (n. syn.) and *chatfieldii* (n. syn.), so they are here considered synonyms.
abrasa (Guenée, 1852) (Thyatira)
abrasoides Barnes & Benjamin, 1929 (Habrosyne) N. SYN.
chatfeldti; Werny, 1966 (Habrosyne) missp.
chatfieldi; McDunnough, 1938 (Habrosyne) missp.
chatfieldii Grote, 1895 (Habrosyne) N. SYN.

850004 H. gloriosa (Guenée, 1852) (Thyatira) 6236
NOTE: We maintain the subspecies name *arizonensis* for the disjunct western population, which differs slightly in DNA barcodes and phenotype. Presumably larval host plant differs as well, since *Physocarpus opulifolius* (L.) Maxim. (Rosaceae), the only hostplant of eastern *H. gloriosa*, is replaced in the west by other *Physocarpus* species.
ssp. a. gloriosa (Guenée, 1852) (Thyatira)
rectangulata Ottolengui, 1897 (Habrosyne)
ssp. b. arizonensis Barnes & McDunnough, 1912 (Habrosyne)

Genus PSEUDOTHYATIRA Grote, 1865
LACINIA Grote, 1863

850005 P. cymatophoroides (Guenée, 1852) (Thyatira) 6237
expultrix (Grote, 1863) (Lacinia)

Tribe THYATIRINI Smith, 1893

Genus THYATIRA Ochsenheimer, 1816
CALLEIDA Sodoffsky, 1837

850006.1 T. superba Barnes, 1901 (Thyatira) REV. STAT. [NEW]
NOTE: The NA taxon that occurs in AZ has previously been called *T. mexicana*, but this is a complex of several cryptic species that differ in DNA barcodes, distribution and morphology. The name *T. mexicana* (TL: Vera Cruz, Mexico) does not apply to the AZ taxon, for which the name *superba* is available (TL: Huachuca Mtns, AZ), and it is hereby reinstated as a valid species (rev. stat.).
mexicana of authors; not Edwards, 1884 (Thyatira) misappl. *[6238]*

Tribe MACROTHYATIRINI Werny, 1966

Genus EUTHYATIRA Small, 1891
NOTE: Although this genus is endemic to NA as it is currently defined, the Nearctic species are very similar structurally and genetically to the Asian genus *Macrothyatira* Marumo, 1916, likely representing a Holarctic genus of Asian evolutionary origins; *Macrothyatira* may therefore prove to be a generic synonym of *Euthyatira*.
PERSISCOTA Grote, 1895

850007 E. lorata (Grote, 1881) (Thyatira) 6239
NOTE: This species may be a west coast form or subspecies of *E. pudens* as the two taxa do not occur in strict sympatry, and neither DNA barcodes nor genitalic morphology are always diagnostic. However, there is a very abrupt transition or suture zone from *pudens* to *lorata* phenotypes in northwestern WA, and they are retained here as distinct species pending more research on this interesting situation.

850008 E. pudens (Guenée, 1852) (Thyatira) 6240
anticostiensis (Grote, 1886) (Thyatira)
pennsylvanica Smith, 1902 (Euthyatira)

850009 E. semicircularis (Grote, 1881) (Bombycia) 6241
griseor (Barnes & McDunnough, 1910) (Bombycia) N. SYN.
NOTE: The taxon *griseor* was previously treated as a subspecies, but is here considered a junior synonym (n. syn.).
tema Strecker, 1898 (Euthyatira)

Tribe CERANEMOTINI Werny, 1966

ID INFO: Clarke & Benjamin (1938).

Genus CERANEMOTA Clark, 1938

850010 C. improvisa (Edwards, 1873) (Cymatophora) 6242
850011 C. fasciata (Barnes & McDunnough, 1910) (Bombycia) 6243
850012 C. crumbi Benjamin, 1938 (Ceranemota) 6244
850013 C. semifasciata Benjamin, 1938 (Ceranemota) 6245
850014 C. tearlei (Edwards, 1886) (Gluphisia) 6246
850015 C. partida Clarke, 1938 (Ceranemota) 6247
850016 C. albertae Clarke, 1938 (Ceranemota) 6248
850017 C. amplifascia Clarke, 1938 (Ceranemota) 6249

Genus BYCOMBIA Benjamin, 1938

850018 B. verdugoensis (Hill, 1927) (Bombycia) 6250

Subfamily DREPANINAE Boisduval, 1828

Tribe DREPANINI Boisduval, 1828

Genus DREPANA Schrank, 1802

PLATYPTERIX Ochsenheimer, 1816
PLATYPYERYX Laspeyres, 1803

850019 D. arcuata Walker, 1855 (Drepana) 6251

NOTE: There is very minor geographic variation in *D. arcuata* phenotypes across its range, and molecular variation (DNA barcode) is low; the formerly recognized subspecies *alaskensis* (n. syn.) and *siculifer* (n. syn.) are therefore considered synonyms here.

alaskensis Barnes & Benjamin, 1922 (Drepana) N. SYN.
fabula (Grote, 1862) (Platypteryx)
genicula (Grote, 1862) (Platypteryx)
grotei Barnes & Benjamin, 1922 (Drepana)
siculifer Packard, 1872 (Drepana) N. SYN.

Genus FALCARIA Haworth, 1809

EDAPTERYX Packard, 1864
PRIONIA Hübner, 1819

850020 F. bilineata (Packard, 1864) (Edapteryx) REV. COMB. 6252

NOTE: The NA taxon *bilineata* is usually placed in the genus *Drepana* (type species: *D. falcataria* (Linnaeus, 1758)) based on Ferguson (in Hodges et al. 1983) (but see Scott & Yack 2012). However, the Eurasian species *Falcaria lacertinaria* (Linnaeus, 1758) is so closely related to *bilineata* that they may even be conspecific, and *bilineata* is here returned to the genus *Falcaria* (type species: *F. lacertinaria*) (rev. comb.) to align with the modern concept of the genus. The taxon *rampartensis* (n. syn.) is here treated as a synonym rather than a subspecies.

hudsoni (Barnes & Benjamin, 1922) (Drepana)
levis (Hudson, 1893) (Prionia)
rampartensis (Barnes & Benjamin, 1922) (Drepana) N. SYN.

Genus EUDEILINIA Packard, 1876

850021 E. herminiata (Guenée, [1858]) (Corycia) 6253

albata (Guenée, [1858]) (Corycia)
biseriata Packard, 1873 (Eudeilinia)
luteifera Dyar, 1917 (Eudeilinia) N. SYN. *[6254]*

NOTE: The taxon *luteifera* (TL: Dallas, TX) was treated as a species by Ferguson (in Hodges et al. 1983), but is here considered a synonym of *E. herminiata* (n. syn.) based on examination of the type (USNM) and comparison of phenotypic and DNA barcode variation of TX and OK specimens to other eastern NA specimens.

Tribe ORETINI Inoue, 1962

ID INFO: Watson (1967).

Genus ORETA Walker, 1855

DRYOPTERIS Grote, 1861

850023 O. rosea (Walker, 1855) (Drepana) 6255

americana (Herrich-Schäffer, 1855) (Cilix)
formula (Grote, 1862) (Dryopteris)
irrorata (Packard, 1864) (Dryopteris)
marginata (Walker, 1855) (Drepana)

Superfamily LASIOCAMPOIDEA Harris, 1841

81. Family LASIOCAMPIDAE Harris, 1841 (lappet moths and tent caterpillar moths)

by B. Christian Schmidt

Lasiocampids are robust, medium-sized to very large moths (25 to 120 mm wingspan). The NA species are drably colored with reduced or simplified wing patterns. Males have conspicuously plumose antennae. Larval host plants are primarily trees and shrubs, both deciduous and coniferous. Three genera occur widely throughout most of NA (*Phyllodesma*, *Tolype*, and *Malacosoma*). The most familiar and ecologically best-known NA lasiocampids are undoubtedly the tent caterpillars (*Malacosoma* species, reviewed by Stehr & Cook 1968) as a result of their consistent abundance and periodic outbreaks. A fourth group comprises several genera of large Neotropical lasiocampids (*Gloveria*, *Quadrina*, *Caloesia*, *Dicogaster*) that enter the NA fauna in the American Southwest.

Although all NA lasiocampids were reviewed by Franclemont (1973a), taxonomic problems exist in the genera *Tolype* and *Malacosoma* and a modern revision is needed. The intrafamilial phylogeny of Lasiocampidae has not been comprehensively examined; studies to date are based on a single gene and are geographically limited (Regier et al. 2000, 2008; Zolotuhin et al. 2012). Some classification changes were recently proposed by Zolotuhin et al. (2012), but no New World genera were included in their analysis (aside from the Holarctic *Phyllodesma* and *Malacosoma*). Although a taxonomically comprehensive phylogeny of Lasiocampidae is needed, we tentatively accept the infrafamilial classification proposed by Zolotuhin et al. (2012), with modifications based on Regier et al. (2000). About 1,500 species of lasiocampids are known globally (Lemaire & Minet 1999), 33 of which are known in NA.

Subfamily LASIOCAMPINAE Harris, 1841

Tribe GASTROPACHINI Neumoegen & Dyar, 1894

Genus HETEROPACHA Harvey, 1874

870001 H. rileyana Harvey, 1874 (Heteropacha) 7685

Genus PHYLLODESMA Hübner, 1820

NOTE: The last two taxonomic revisions of NA *Phyllodesma* differ substantially in taxonomic concepts; it is not currently possible to reliably identify the three recognized species, and there is no convincing evidence that more than one species is present in NA. Consequently, all NA populations are here treated as a single variable species. See details in Appendix I.

AMMATOCAMPA Wallengren, 1869
EPICNAPTERA Rambur, 1866

870003 P. americana (Harris, 1841) (Gastropacha) 7687
alascensis (Packard, 1870) (Gastropacha)
angelorum Lajonquière, 1969 (Phyllodesma)
ardens Lajonquière, 1969 (Phyllodesma)
arizonensis Lajonquière, 1969 (Phyllodesma)
borealis Lajonquière, 1969 (Phyllodesma)
californica (Packard, 1872) (Gastropacha)
canadensis Lajonquière, 1969 (Phyllodesma)
carpinifolia (Boisduval, 1868) (Lasiocampa)
celsivolans Lajonquière, 1969 (Phyllodesma)
cinerascens Lajonquière, 1969 (Phyllodesma)
clarinervata Lajonquière, 1969 (Phyllodesma)
coturnix Lajonquière, 1969 (Phyllodesma) N. SYN. *[7688]*

NOTE: New synonymy; see Appendix I for details.

dyari Rivers, 1893 (Phyllodesma)
ferruginea (Packard, 1864) (Gastropacha)
franciscana Lajonquière, 1969 (Phyllodesma)
mildei (Stretch, 1872) (Gastropacha)
nevadensis Lajonquière, 1969 (Phyllodesma)
occidentis (Walker, 1855) (Gastropacha) N. SYN. *[7686]*

NOTE: New synonymy; see Appendix I for details.

preciosa Lajonquière, 1969 (Phyllodesma)
rockiesensis Lajonquière, 1969 (Phyllodesma)
roseata (Stretch, 1872) (Gastropacha)
sanctilaurentis Lajonquière, 1969 (Phyllodesma)
texana Lajonquière, 1969 (Phyllodesma)
transiens Lajonquière, 1969 (Phyllodesma)

Tribe PINARINI Kirby, 1892

NOTE: The New World genera here placed in Pinarini for the first time were previously placed in Lasiocampini Harris. The tribal composition of Lasiocampinae was revised by Zolotuhin et al. (2012), but none of the New World "Lasiocampini" were included. However, *Quadrina* and *Caloecia* form part of a New World group of "unusually large Lasiocampinae" closely related to *Dendrolimus* Germar, 1812 of Asia (Regier et al. 2000), the latter placed in Pinarini by Zolotuhin et al. (2012). Furthermore, *Dendrolimus* and the New World genera share a gregarious larval habit and winter diapause in the larval stage. *Caloecia*, *Quadrina*, *Dicogaster*, and *Gloveria* are therefore placed in Pinarini along with *Dendrolimus*.

Genus CALOECIA Barnes & McDunnough, 1911

870005 C. juvenalis (Barnes & McDunnough, 1911) (Dendrolimus) 7689
870006 C. entima Franclemont, 1973 (Caloecia) 7690

Genus QUADRINA Grote, 1881

870007 Q. diazoma Grote, 1881 (Quadrina) 7691
oweni (Barnes, 1906) (Eutricha)

Genus DICOGASTER Barnes & McDunnough, 1911

870008 D. coronada (Barnes, 1904) (Gloveria) 7692
valens (Dyar, 1905) (Gloveria)

Genus GLOVERIA Packard, 1872

870009 G. howardi (Dyar, 1896) (Dendrolimus) 7693
870010 G. medusa (Strecker, 1898) (Lasiocampa) 7694
editha Johnson, 1981 (Gloveria)
870011 G. gargamelle (Strecker, 1884) (Lasiocampa) 7695
870012 G. arizonensis Packard, 1872 (Gloveria) 7696
dentata Edwards, 1884 (Gloveria)
dolores (Neumoegen & Dyar, 1893) (Dendrolimus)
870013 G. sphingiformis Barnes & McDunnough, 1910 (Gloveria) 7697

Subfamily MALACOSOMINAE Tutt, 1902

NOTE: The inclusion of *Malacosoma* within Lasiocampinae (Franclemont 1973a; Lemaire & Minet 1999) is not supported by recent phylogenetic analyses (Regier et al. 2000; Zolotuhin et al. 2012), and is here placed in a separate subfamily following Zolotuhin et al. (2012).

Genus MALACOSOMA Hübner, 1820

CLISIOCAMPA Curtis, 1828

870014 M. disstria Hübner, 1820 (Malacosoma) 7698
anita Reiff, 1913 (Malacosoma)

astriata Reiff, 1913 (Malacosoma)
drupacearum (Boisduval, 1868) (Bombyx)
erosa (Stretch, 1881) (Clisiocampa)
nubilis (Guérin-Méneville, 1832) (Chelonia)
perversa (Neumoegen & Dyar, 1893) (Clisiocampa)
sylvatica (Harris, 1841) (Clisiocampa)
sylvaticoides (Neumoegen & Dyar, 1893) (Clisiocampa)
thoracioides (Neumoegen & Dyar, 1893) (Clisiocampa)

870015 M. constricta (Edwards, 1874) (Clisiocampa) 7699
ssp. a. constricta (Edwards, 1874) (Clisiocampa)
ssp. b. austrinum Stehr, 1968 (Malacosoma)
strigosa (Stretch, 1881) (Clisiocampa)

870016 M. tigris (Dyar, 1902) (Clisiocampa) 7700
inducta Dyar, 1906 (Malacosoma)
onissa (Dyar, 1911) (Clisiocampa)
texana Dyar, 1928 (Malacosoma)

870017 M. americana (Fabricius, 1793) (Bombyx) 7701
decipiens (Walker, 1855) (Clisiocampa)
frutetorum (Boisduval, 1868) (Bombyx)
pensylvanica (Guérin-Méneville, 1832) (Bombyx)

870018 M. californica (Packard, 1864) (Clisiocampa) 7702
NOTE: Large divergence rates in DNA barcodes among *M. californica* subspecies as defined by Stehr & Cook (1968) and Franclemont (1973a) indicate that more than one species is currently placed under this name; tent caterpillar taxonomy is in need of revision.
ssp. a. californica (Packard, 1864) (Clisiocampa)
californica; (Packard, 1864) (Clisiocampa) missp.
californica (Walker, 1865) (Clisiocampa)
perlutea (Neumoegen & Dyar, 1893) (Clisiocampa)
pseudoneustria (Boisduval, 1868) (Bombyx)
thoracica (Stretch, 1881) (Clisiocampa)
ssp. b. ambisimilis (Dyar, 1893) (Clisiocampa)
ssp. c. recenseo Dyar, 1928 (Malacosoma)
ssp. d. pluvialis (Dyar, 1893) (Clisiocampa)
ssp. e. lutescens (Neumoegen & Dyar, 1893) (Clisiocampa)
ssp. f. fragilis (Stretch, 1881) (Clisiocampa)
mus (Neumoegen, 1893) (Clisiocampa)

870019 M. incurva (Edwards, 1882) (Clisiocampa) 7703
ssp. a. incurva (Edwards, 1882) (Clisiocampa)
constrictina (Neumoegen & Dyar, 1893) (Clisiocampa)
ssp. b. discolorata (Neumoegen, 1893) (Clisiocampa)

Subfamily POECILOCAMPINAE Tutt, 1902

Tribe MACROMPHALIINI Franclemont, 1973

Genus HYPOPACHA Neumoegen & Dyar, 1893

870020 H. grisea (Neumoegen, 1882) (Cnethocampa) 7669

Genus TOLYPE Hübner, 1820

NOTE: The genus *Tolype* is in dire need of revision. The western species as defined by Franclemont (1973a) cannot be reliably identified and they may not all represent valid species.
PLANOSA Fitch, 1856
TOLYP; Cassino, 1928 missp.

870021 T. velleda (Stoll, 1791) (Phalaena) 7670
candidatus Cassino, 1928 (Tolype)
870022 T. austella Franclemont, 1973 (Tolype) 7671
870023 T. mayelisae Franclemont, 1973 (Tolype) 7672
870024 T. laricis (Fitch, 1856) (Planosa) 7673
minuta (Grote, 1864) (Gastropacha)
870025 T. notialis Franclemont, 1973 (Tolype) 7674
870026 T. minta Dyar, 1906 (Tolype) 7675
870027 T. glenwoodii Barnes, 1900 (Tolype) 7676
870028 T. distincta French, 1890 (Tolype) 7677
870029 T. nigricaria Cassino, 1928 (Tolype) 7678
870030 T. dayi Blackmore, 1921 (Tolype) 7679
870031 T. lowriei Barnes & McDunnough, 1918 (Tolype) 7680

Genus APOTOLYPE Franclemont, 1973

870032 A. brevicrista (Dyar, 1895) (Tolype) 7681
nigrocristata (Walter, 1928) (Tolype)
vemerila (Dyar, 1914) (Tolype)
870033 A. blanchardi Franclemont, 1973 (Apotolype) 7682

Genus ARTACE Walker, 1855

870034 A. colaria Franclemont, 1973 (Artace) 7684
870035E A. albicans Walker, 1855 (Artace) EXCL. [NEW]
NOTE: This species was discussed and excluded from the NA fauna by Franclemont (1973a).
870036 A. cribrarius (Ljungh, 1825) (Cossus) 7683
punctistriga Walker, 1855 (Artace)

Superfamily BOMBYCOIDEA Latreille, [1802]

82. Family APATELODIDAE Neumoegen & Dyar, 1894 (American silkworm moths)

by Ryan A. St Laurent

Apatelodidae are generally medium sized moths, with wingspans ranging from about 30 to 40 mm in NA species (Covell 2005; Wagner & Knudson 2014). The two genera found in NA are quite distinct from each other, but both habitually rest standing high on their legs with the wings maintained either splayed open (*Apatelodes*) or forming a triangle with an irregular distal edge (*Olceclostera*). Larvae are densely covered in thick setae, appearing hairy, with prominent dorsal tufts of more elongated hairlike setae in *Apatelodes*. Host plants include various trees as well as herbaceous plants in the Asteraceae and Rutaceae, among others depending on the species (Wagner 2005; Wagner & Knudson 2014).

Apatelodidae was long considered a subfamily (as Apatelodinae) of Bombycidae or a family that included several genera now considered to belong to Bombycidae (for example, see Becker et al. 1996). However, recent phylogenetic work on the Bombycoidea has revealed that the American endemic Apatelodidae is not as closely related to Bombycidae *sensu stricto* as once was thought, but instead, is the sister lineage to the Old World Bombycoidea sister pair of families Eupterotidae and Brahmaeidae (Zwick et al. 2011; Hamilton et al. 2019). There are over 180 described species of Apatelodidae, with all but six of them found in the American Tropics. We follow the checklist of Kitching & Rougerie et al. (2018) for classification of Apatelodidae and do not recognize any subfamilies at this time.

Franclemont (1973a) treated the NA species, being the last to do so in a single publication. An additional species from south TX was described more recently (Wagner & Knudson 2014), bringing the total to six NA species. Although Apatelodidae have been included in major Bombycoidea phylogenetic works, no authors have investigated the higher systematics of this family since Draudt (in Seitz [1928]) (when all species were included in subfamily Zanolinae of the Bombycidae), and thus, this is still a rather poorly studied moth family, which is especially the case for the Tropical fauna.

Genus APATELODES Packard, 1864

ASTASIA Harris, 1841

HYGROCHROA Hübner, [1823] nomen oblitum

NOTE: From Fletcher & Nye (1982): "*Hygrochroa* Hübner, [1823], is a senior subjective synonym of *Apatelodes* Packard, 1864, but has not been used during the last eighty years. Under the ICZN, Articles 23(a-b) and 79, the case should be referred to the Commission to use its plenary powers in the interest of nomenclatural stability to grant nomenclatural precedence to *Apatelodes* Packard, 1864, over *Hygrochroa* Hübner, [1823]." Considered a nomen oblitum in Kitching & Rougerie et al. (2018).

89 0001 A. torrefacta (Smith, 1797) (Phalaena) 7663
floridana Edwards, 1886 (Apatelodes)

89 0002 A. pudefacta Dyar, 1904 (Apatelodes) 7664
uvada Barnes, 1904 (Apatelodes)

89 0003 A. auduboni Wagner & Knudson, 2014 (Apatelodes) [NEW]

Genus OLCECLOSTERA Butler, 1878

89 0004 O. angelica (Grote, 1864) (Parathyris) 7665
hyalinopuncta (Packard, 1864) (Apatelodes)

89 0005 O. indistincta (Edwards, 1886) (Apatelodes) 7666

89 0006 O. seraphica (Dyar, 1906) (Apatelodes) 7667

83. Family BOMBYCIDAE Latreille, [1802] (silk moths) (excl.)

by Ryan A. St Laurent

Silk moths are medium-sized to large moths with heavy bodies, united by features of the thorax. Adults rest with the forewings held at right angles from the body.

The intrafamilial taxonomy of Bombycidae has been in flux for some time, previously including Apatelodidae as a subfamily, as well as several other groups now recognized to be distinct families (e.g., Phiditiidae, Endromidae). We follow Zwick et al. (2011), Kitching & Rougerie et al. (2018), and Hamilton et al. (2019) for the recognition of five separate Bombycoidea families in the New World: Apatelodidae, Bombycidae, Phiditiidae, Saturniidae, and Sphingidae.

About 350 species of Bombycidae are known worldwide. The family is absent from Europe and NA, except for the Domesticated Silkworm, *Bombyx mori*. We include Bombycidae here due to the prevalence of *B. mori* in human society as a source of silk and as a common model organism in research. It was treated in more detail by Franclemont (1973a).

Subfamily BOMBYCINAE Latreille, [1802] (excl.)

Genus BOMBYX Linnaeus, 1758 (excl.)

89 0007E B. mori (Linnaeus, 1758) (Phalaena)
EXCL.; DOMEST. 7668
NOTE: This Asian species, the Domesticated Silkworm, is often reared in captivity in NA, and is listed in some NA checklists and catalogs.

84. Family SATURNIIDAE Boisduval, [1837] (giant silk moths)

by Ryan A. St Laurent

Saturniidae are large to very large moths (40 to 200 mm wingspan) and are among the most intensely studied families of Lepidoptera, with a rich taxonomic and systematic history. Members of the family are also important as model organisms, in sericulture, and as pests. Many species are large, colorful, and have garnered significant appreciation of humankind. Wild silk moths are found on all continents except Antarctica and consist of over 3,000 described species, making Saturniidae the most species rich family of Bombycoidea.

Three subfamilies of Saturniidae occur in NA, each of which is quite distinct in outward appearance of larvae and adults, and so it is easier to summarize the morphological diversity of Saturniidae when breaking them down into these major clades. The two subfamilies with the most species in NA, Ceratocampinae and Hemileucinae, are endemic to the Americas, with the bulk of their species in Central and South America. However, some genera such as *Hemileuca*, *Coloradia*, and *Anisota* have radiated in NA. Most species belonging to these subfamilies represent only a handful of much more diverse genera that are found south of the USA border, such as *Automeris*, *Eacles*, *Syssphinx*, and *Citheronia*. These two subfamilies also contain species that are generally among the smallest Saturniidae, though *Citheronia* and *Eacles* are two giants of NA Lepidoptera fauna. The third subfamily, Saturniinae, contains several globally distributed genera such as *Antheraea* and *Actias*, and others endemic to NA such as *Calosaturnia* and *Callosamia*.

Larvae of Saturniidae are generally feeders of woody plants and are widely varied in diet, including both gymnosperms and angiosperms. The larvae can be devoid of hairs but covered in sharp scoli (Ceratocampinae), endowed with dense urticating spines (Hemileucinae), or mostly hairy or mostly scoli-covered (Saturniinae).

Given the extraordinary interest in these moths over the centuries, the systematics have undergone many regional, global, and group-specific revisions. The NA taxa have been particularly well studied, with several key family-wide studies (Packard 1905, 1914; Ferguson 1971, 1972; Lemaire 1978, 1980, 1988, 2002; Tuskes et al. 1996). Kitching & Rougerie et al. (2018) provide a world checklist, but few notes were provided on taxonomic acts therein. A total of 91 species are known from NA, including one extirpated species.

Subfamily CERATOCAMPINAE Harris, 1841

Genus CITHERONIA Hübner, 1819
CERATOCAMPA Harris, 1833
DORYCAMPA Duncan [& Westwood], 1841
ERUCA Edwards, 1771 nomen oblitum

890008E C. phoronea (Cramer, [1779]) (Phalaena) EXCL. [NEW]
NOTE: Reported as new to NA (TX) in the 2003 Season Summary of the Lepidopterists' Society (2004). That record is presumed to be an unestablished introduction, as it has not seen since, and the nearest populations are far away in Panama. It is hereby excluded from the NA list.

890009 C. regalis (Fabricius, 1793) (Bombyx) 7706
infernalis Strecker, 1883 (Citheronia)
regia (Smith, 1797) (Phalaena)
saengeri Neumoegen, 1891 (Citheronia)

890010 C. sepulcralis Grote & Robinson, 1865 (Citheronia) 7708
sepulchralis; [various, no date] (Citheronia) missp.

890011 C. splendens (Druce, 1886) (Eacles) extralim. 7707
ssp. a. sinaloensis Hoffmann, 1942 (Citheronia)

Genus EACLES Hübner, 1819
BASILONA Boisduval, 1868
CERACAMPA Kirby & Spence, 1826
CRENUDIA Burmeister, 1880

890012 E. imperialis (Drury, 1773) (Phalaena) 7704
ssp. a. imperialis (Drury, 1773) (Phalaena)
didyma (Beauvois, 1805) (Bombyx)
imperatoria (Smith, 1797) (Phalaena)
nobilis Neumoegen, 1891 (Eacles)
punctatissima Neumoegen, 1891 (Eacles)

890012.1 E. pini Michener, 1950 (Eacles) [NEW]
NOTE: Raised from subspecies of *E. imperialis* by Brechlin (2022) and maintained as such here.

890013 E. oslari Rothschild, 1907 (Eacles) 7705

Genus ANISOTA Hübner, [1820]
ADELOCEPHALA Duponchel, 1841

890014 A. stigma (Fabricius, 1775) (Bombyx) 7716

890015 A. manitobensis McDunnough, 1921 (Anisota) 7717

890015.1 A. fuscosa Ferguson, 1971 (Anisota) [NEW]
NOTE: Raised from subspecies of *A. stigma* by Burke & Piegler (2009), and treated as such by Kitching & Rougerie et al. (2018).

890016 A. consularis Dyar, 1896 (Anisota) 7718

890017 A. virginiensis (Drury, 1773) (Phalaena) 7723
astynome (Olivier, 1790) (Bombyx)

890017.1 A. discolor Ferguson, 1971 (Anisota) [NEW]
NOTE: Currently treated as a valid species by Kitching & Rougerie et al. (2018).

890017.2 A. pellucida (Smith, 1797) (Phalaena) [NEW]
NOTE: Currently treated as a valid species by Kitching & Rougerie et al. (2018).
perspicellina (Sherborne, 1898) (Phalaena)
sinulis Riotte, 1970 (Anisota)

890018 A. senatoria (Smith, 1797) (Phalaena) 7719

890019 A. finlaysoni Riotte, 1969 (Anisota) 7721

890020 A. peigleri Riotte, 1975 (Anisota) 7720

890021 A. oslari Rothschild, 1907 (Anisota) 7722
neomexicana Brehme, 1909 (Anisota)
skinneri Biederman, 1908 (Anisota)

Genus DRYOCAMPA Harris, 1833

890022 D. rubicunda (Fabricius, 1793) (Bombyx) 7715
alba Grote, 1874 (Dryocampa)
pallida Bowles, 1875 (Dryocampa)
roseilinea (Schaus, 1920) (Adelocephala)
semialba Schüssler, 1936 (Dryocampa)
sperryae (Bower, 1942) (Anisota)

Genus SYSSPHINX Hübner, [1819]
ID INFO: Tuskes et al. (1996); also Brechlin & Meister (2014).
BOUVIERINA Michener, 1949
CERODERES Boisduval, 1872

KANZIA Travassos & Noronha, 1965
PSEPHOPAECTES Grote & Robinson, 1867
SPHINGICAMPA Walsh, 1864
NOTE: Most recently Kitching & Rougerie et al. (2018) treated *Sphingicampa* as a synonym of *Syssphinx* but the issue of its validity is still unclear due to superficial differences of the type species of *Syssphinx* and *Sphingicampa*.

890023 S. bisecta (Lintner, 1879) (Anisota) 7712
nebulosa (Neumoegen, 1890) (Sphingicampa)
890024 S. bicolor (Harris, 1841) (Dryocampa) 7709
distigma (Walsh, 1864) (Sphingicampa)
immaculata (Jewett, 1882) (Adelocephala)
suprema (Neumoegen, 1885) (Sphingicampa)
890024.1 S. tamaulipasiana Brechlin & Meister, 2014 (Syssphinx) [NEW]
NOTE: *Syssphinx tamaulipasiana* was described from Tamaulipas, Mexico (Brechlin & Meister 2014) and has been reported from the USA in Wagner & Nall (2022). Previous reports of the similar *S. bicolor* from south TX refer to this species.
890025 S. heiligbrodti (Harvey, 1877) (Anisota) 7710
890026 S. hubbardi Dyar, [1903] (Syssphinx) 7711
890027 S. blanchardi (Ferguson, 1971) (Sphingicampa) 7713
890028 S. montana (Packard, 1905) (Adelocephala) [NEW]
kuschei (Dyar, 1925) (Adelocephala)
phaedima (Dyar, 1925) (Adelocephala)
sinaloana (Schaus, 1920) (Adelocephala)
890029 S. raspa (Boisduval, 1872) (Adelocephala) [NEW]
890030 S. albolineata (Grote & Robinson, 1866) (Adelocephala) 7714
mendizabali (Hoffmann, 1942) (Adelocephala)

Genus ADELONEIVAIA Travassos, 1940

890031 A. isara (Dognin, 1905) (Syssphinx) [NEW]
NOTE: Added to the NA list following Tuskes et al. (1996). It is known in NA only from a single specimen collected in extreme southeastern AZ in 1984.
pacifica (Schaus, 1911) (Adelocephala)
packardi (Bouvier, 1927) (Adelocephala)

Subfamily HEMILEUCINAE Grote & Robinson, 1866

Tribe HEMILEUCINI Grote & Robinson, 1866

Genus COLORADIA Blake, 1863
ID INFO: Tuskes et al. (1996); also Brechlin & van Schayck (2016).

890032 C. doris Barnes, 1900 (Coloradia) 7725
lois Dyar, 1911 (Coloradia)
890032.1 C. duffneri Barnes & Benjamin, 1926 (Coloradia) [NEW]
890032.2 C. siriae Brechlin & van Schayck, 2016 (Coloradia) [NEW]
890033 C. luski Barnes & Benjamin, 1926 (Coloradia) 7726
890034 C. pandora Blake, 1863 (Coloradia) 7724
ssp. a. pandora Blake, 1863 (Coloradia)
lindseyi Barnes & Benjamin, 1926 (Coloradia)
loiperda Dyar, 1912 (Coloradia)
ssp. b. davisi Barnes & Benjamin, 1926 (Coloradia)
bonniwelli Barnes & Benjamin, 1926 (Coloradia)
chiricahua Barnes & Benjamin, 1926 (Coloradia)
890035 C. velda Johnson & Walter, 1981 (Coloradia) 7726.1

Genus HEMILEUCA Walker, 1855
ID INFO: Tuskes et al. (1996); also Dupuis et al. (2018), Pavulaan (2020).
ARGYRAUGES Grote, 1882
EUCHRONIA Packard, 1864
EULEUCOPHAEUS Packard, 1872
HERA Harris, 1869
PSEUDOHAZIS Grote & Robinson, 1866

Hemileuca tricolor group Tuskes et al., 1996

890036 H. tricolor (Packard, 1872) (Euleucophaeus) 7727
890037E H. lex (Druce, 1897) (Euleucophlaeus) EXCL. [NEW]
NOTE: Listed by Ferguson (1971) as "doubtful", based on material likely from Mexico and mislabeled. It was not mentioned at all by Tuskes et al. (1996).
890038 H. hualapai (Neumoegen, 1883) (Euleucophaeus) 7728
890039 H. oliviae Cockerell, 1898 (Hemileuca) 7729
grisea Cockerell, 1914 (Hemileuca)
suffusa Cockerell, 1914 (Hemileuca)

Hemileuca maia group Tuskes et al., 1996
NOTE: See details on this group in Appendix I.

890041 H. lucina Edwards, 1887 (Hemileuca) 7732
lutea Reiff, 1910 (Hemileuca)
obsoleta Reiff, 1910 (Hemileuca)
890041.1 H. maia (Drury, 1773) (Phalaena) 7730
lintneri Cockerell, 1914 (Hemileuca)
proserpina (Fabricius, 1775) (Bombyx)
890041.2 H. menyanthevora Pavulaan, 2020 (Hemileuca)
REV. STAT. [NEW]
NOTE: See rationale for rev. stat., and the synonymy of *iroquois* n. syn., in Appendix I under the *Hemileuca maia* group.
iroquois Cryan & Dirig, 2020 (Hemileuca) N. SYN.
890042 H. nevadensis Stretch, 1872 (Hemileuca) 7731
artemis Packard, 1893 (Hemileuca) N. SYN.
NOTE: Given recent phylogenomic efforts (Dupuis et al. 2018), *H. artemis* is here returned to synonymy with *H. nevadensis* (n. syn.). Dupuis et al. (2018) showed that the *H. maia* complex is likely severely over-split by more conservative genetic structure analyses, or severely under-split by more liberal structure analyses, but in neither scenario is *H. artemis* recognized as a valid species-level taxon. See also the note in Appendix I regarding the *H. maia* group.
californica Wright, 1888 (Hemileuca)
latifascia Barnes & McDunnough, 1916 (Hemileuca)
890042.1 H. orleans Pavulaan, 2020 (Hemileuca) [NEW]
NOTE: This species is provisionally recognized as a valid species, but the *maia* group requires further work, see Appendix I.
890042.2 H. peigleri Lemaire, 1981 (Hemileuca) [NEW]
NOTE: Currently treated as a valid species by Kitching & Rougerie et al. (2018).
890042.3 H. sandra Pavulaan, 2020 (Hemileuca) [NEW]
NOTE: This species is provisionally recognized as a valid species, but the *maia* group requires further work, see Appendix I.
890043 H. slosseri Peigler & Stone, 1989 (Hemileuca) [NEW]
890043.1 H. warreni Pavulaan, 2020 (Hemileuca) [NEW]
NOTE: This species is provisionally recognized as a valid species, but the *maia* group requires further work, see Appendix I.

Hemileuca electra group Tuskes et al., 1996

890044 H. electra Wright, 1884 (Hemileuca) 7736
ssp. a. electra Wright, 1884 (Hemileuca)
rickseckeri Watson, 1912 (Hemileuca)
watsoni Schüssler, 1934 (Hemileuca)
ssp. b. clio Barnes & McDunnough, 1918 (Hemileuca)
ssp. c. mojavensis Tuskes & McElfresh, 1995 (Hemileuca)
890045 H. juno Packard, 1872 (Hemileuca) 7735
yavapai Neumoegen, 1881 (Hemileuca)

Hemileuca grotei group Tuskes et al., 1996

890046 H. grotei Grote & Robinson, 1868 (Hemileuca) 7733
NOTE: This was an unpublished Hopffer name, made available by Grote & Robinson.
ssp. a. grotei Grote & Robinson, 1868 (Hemileuca)
ssp. b. diana Packard, 1874 (Hemileuca) [7734]
890047 H. stonei Lemaire, 1993 (Hemileuca) [NEW]

Hemileuca burnsi group Tuskes et al., 1996

890048 H. neumoegeni (Edwards, 1881) (Euleucophaeus) 7738
890049 H. burnsi Watson, 1910 (Hemileuca) 7737
bifasciata Schüssler, 1934 (Hemileuca)
conjuncta Watson, 1912 (Hemileuca)
ilmae Watson, 1910 (Hemileuca)
nigrovenosa Watson, 1910 (Hemileuca)
paradoxa Watson, 1913 (Hemileuca)

Hemileuca chinatiensis group Tuskes et al., 1996

890050 H. chinatiensis (Tinkham, 1943) (Pseudohazis) 7739
conwayae Peigler, 1985 (Hemileuca)
890051 H. griffini Tuskes, 1978 (Hemileuca) 7740

Hemileuca eglanterina group Tuskes et al., 1996

890052 H. eglanterina (Boisduval, 1852) (Saturnia) 7744
ssp. a. eglanterina (Boisduval, 1852) (Saturnia)
boisduvali (Oberthür, 1914) (Pseudohazis)
denudata (Neumoegen, 1891) (Pseudohazis)
harrisi (Oberthür, 1914) (Pseudohazis)

vanschaycki Brechlin & Meister, 2014 (Hemileuca) N. SYN.
NOTE: The taxon *vanschaycki* is hereby synonymized with *H. eglanterina* (n. syn.); see Appendix I for details.
ssp. b. shastaensis (Grote, 1880) (Pseudohazis)
normalis (Dyar & Cockerell, 1914) (Pseudohazis)

890052.1 H. annulata Ferguson, 1971 (Hemileuca) [NEW]
NOTE: Raised to species status by Lemaire (2002) and maintained as valid since.

890053 H. nuttalli (Strecker, 1875) (Pseudohazis) 7743
ssp. a. nuttalli (Strecker, 1875) (Pseudohazis)
arizonensis (Strecker, [1878]) (Pseudohazis)
washingtonensis (Medlar, 1944) (Pseudohazis)
ssp. b. uniformis (Cockerell, 1914) (Pseudohazis)
NOTE: We follow Lemaire (2002) and Kitching and Rougerie et al. (2018) in maintaining *uniformis* as a valid subspecies of *H. nuttalli*, although further research is warranted.

890054 H. hera (Harris, 1841) (Saturnia) 7741
ssp. a. hera (Harris, 1841) (Saturnia)
chrysocarena (Harris, 1869) (Hera)
gunderi (Hill, 1924) (Pseudohazis)
pica Walker, 1855 (Hemileuca)
ssp. b. marcata (Neumoegen, 1891) (Pseudohazis)

890054.1 H. magnifica (Rotger, 1948) (Pseudohazis) 7742
NOTE: Status as a valid species follows Lemaire (2002) and Kitching and Rougerie et al. (2018).

Genus AUTOMERIS Hübner, [1819]
AGLIOPSIS Bouvier, 1929
AUTOMEROIDES Michener, 1949
PROTAUTOMERIS Packard, 1903

890055 A. io (Fabricius, 1775) (Bombyx) 7746
argus Neumoegen & Dyar, 1893 (Automeris)
caeca Igel, 1928 (Automeris)
coloradensis Cockerell, 1914 (Automeris)
corollaria (Perry, 1810) (Phalaena)
fabricii (Boisduval, 1875) (Io)
fuscus Luther, 1907 (Automeris)
lilith (Strecker, 1877) (Hyperchiria)
lutheri Cockerell, 1914 (Automeris)
neomexicana Barnes & Benjamin, 1922 (Automeris)
NOTE: Both Lemaire (2002) and Kitching and Rougerie et al. (2018) treat *neomexicana* as a synonym of *A. io*. That is followed herein as there is very little evidence that this is a different entity.
packardi Schüssler, 1934 (Automeris)
texana Barnes & Benjamin, 1922 (Automeris)
varia (Walker, 1855) (Hyperchiria)

890056 A. louisiana Ferguson & Brou, 1981 (Automeris) [NEW]

890057 A. patagoniensis Lemaire, Smith & Wolfe, 1992 (Automeris) [NEW]

890058.1 A. hesselorum Ferguson, 1972 (Automeris) [NEW]
NOTE: Treated as a valid species since Brechlin & Meister (2011) elevated it to full species. Nearctic populations were previously treated under the name *A. iris* (Walker), which does not occur here.
iris of authors; (not Walker, 1865) (Hyperchiria) misappl. *[7747]*

890059 A. cecrops (Boisduval, 1875) (Io) extralim. 7748
ssp. a. pamina (Neumoegen, 1882) (Hyperchiria)
aurosea (Neumoegen, 1882) (Hyperchiria)
chiricahuana Schüssler, 1934 (Automeris)

890060 A. zephyria Grote, 1882 (Automeris) 7749
zephyriata Barnes & Benjamin, 1924 (Automeris)

890061 A. randa Druce, 1894 (Automeris) 7745

Genus HYLESIA Hübner, [1820] (excl.)

Subgenus HYLESIA Hübner, [1820] (excl.)

890062E H. coinopus Dyar, 1913 (Hylesia) EXCL. 7750
NOTE: Listed by Ferguson (in Hodges et al. 1983), but considered uncertain by Tuskes et al. (1996). It is hereby excluded from the NA fauna.

Genus ORMISCODES Blanchard, 1852 (excl.)

890063.1E O. socialis (Feisthamel, in: Guérin-Méneville, 1839) (Bombyx) EXCL. [NEW]
NOTE: The synonym *ribesii* was described from a reared female from "Esquimault", BC. Anderson (1904) and ESBC (1906) subsequently listed it as a questionable record for BC. That is the only known report of this South American species from NA; Ferguson (1971) presumed it was either mislabeled or an accidental introduction.
ribesii Edwards, 1874 (Ormiscodes) (excl.)

Subfamily SATURNIINAE Boisduval, [1837]

Tribe SATURNIINI Boisduval, [1837]

Genus CALOSATURNIA Smith, 1886
NOTE: Rubinoff & Doorenweerd (2020) established *Calosaturnia* as a valid genus for the Nearctic species, rather than *Saturnia* Schrank, 1802.

890064 C. mendocino (Behrens, 1876) (Saturnia) 7751

890065 C. walterorum (Hogue & Johnson, 1958) (Saturnia) 7752
meridionalis Johnson, 1940 (Calosaturnia)

890066 C. albofasciata Johnson, 1938 (Calosaturnia) 7753

Genus AGAPEMA Neumoegen & Dyar, 1894
ID INFO: Tuskes et al. (1996); also Rubinoff & Doorenweerd (2020).
NOTE: Recent genetic work by Rubinoff & Doorenweerd (2020) revived the statuses of *Agapema* and *Calosaturnia* from subgenera of *Saturnia* Schrank, 1802 (which were most recently treated as such in Kitching & Rougerie et al. (2018)).

890067X A. galbina (Clemens, 1860) (Saturnia) EXTIRPATED 7754
NOTE: This species, described from southernmost TX, has not been seen in NA since the 1960s and is presumed extirpated (it still occurs in Mexico).
solita Ferguson, 1972 (Agapema) *[7755]*

890068 A. anona (Ottolengui, 1903) (Saturnia) [NEW]
interrupta Draudt, 1929 (Agapema)

890068.1 A. dyari Cockerell, 1914 (Agapema) REV. STAT. [NEW]
NOTE: Rubinoff & Doorenweerd (2020) provided evidence that *Agapema anona* was rendered paraphyletic by *A. dyari*, which is hereby raised to species (rev. stat.). It was treated as a subspecies of *A. anona* as recently as in Kitching & Rougerie et al. (2018). Independent analysis by RAS of available DNA supports the specific status of *A. dyari*, though genetic differences are seemingly very small and further work is warranted.

890068.2 A. platensis Peigler & Kendall, 1993 (Agapema) REV. STAT. [NEW]
NOTE: Rev. stat., following evidence by Rubinoff & Doorenweerd (2020) that *platensis* is as distinct as *A. dyari* is from *A. anona*. Independent analysis by RAS of available DNA supports the specific status of these taxa, though genetic differences are seemingly very small and further work is warranted.

890069 A. homogena Dyar, 1908 (Agapema) 7756

Genus ANTHERAEA Hübner, [1819]
CARMENTA Weymer, 1906

Subgenus TELEA Hübner, 1819
METOSAMIA Druce, 1892

890070 A. polyphemus (Cramer, [1776]) (Phalaena) 7757
ssp. a. polyphemus (Cramer, [1776]) (Phalaena)
albida (Bouvier, 1936) (Telea)
brunnea (Sageder, 1933) (Telea)
fenestra (Perry, 1811) (Phalaena)
flava (Grote, 1902) (Telea)
fumosus (Wurster, 1930) (Telea)
nigra (Schüssler, 1936) (Telea)
nigrescens (Schüssler, 1936) (Telea)
olivacea (Cockerell, 1914) (Telea)
NOTE: Synonymized by Tuskes et al. (1996).
vinacea (Schüssler, 1936) (Telea)
wilfriedi (Sageder, 1933) (Telea)

890071 A. oculea (Neumoegen, 1883) (Telea) [NEW]
aurelia (Druce, 1892) (Telea)

Genus ACTIAS [Leach, 1815]
ARTEMIS Kirby & Spence, 1828
ECHIDNA Hübner, [1807]
EUANDREA Watson, 1913
MECEURA Billberg, 1820
PLECTOPTERON Hutton, 1846
PROACTIAS Arora & Gupta, 1979
SONTHONNAXIA Watson, 1913
TROPAEA Hübner, [1819]

890072 A. luna (Linnaeus, 1758) (Phalaena) 7758
ssp. a. luna (Linnaeus, 1758) (Phalaena)
bolli (Wagner, 1876) (Saturnia)
dictynna (Walker, 1855) (Tropaea)
lacrimans (Niepelt, 1932) (Tropaea)
maasseni Kirby, 1892 (Actias)
mariae (Benjamin, 1922) (Tropaea)
rossii Ross, 1872 (Actias)
rubromarginata (Davis, 1912) (Tropaea)
rubrosuffusa (Cockerell, 1914) (Tropaea)

Genus COPAXA Walker, 1855
SAGANA Walker, 1855
SATURNIODES Jordan, 1911

89.0073 C. mannana Dyar, 1914 (Copaxa) STRAY [NEW]
NOTE: New to NA, reported from TX in the 2002 Season Summary of the Lepidopterists' Society (2003). This species is unlikely to be a breeding resident in NA.
heringi Draudt, 1929 (Copaxa)

Tribe ATTACINI Blanchard, 1840

Genus SAMIA Hübner, [1819]
ARCHAEOSAMIA Brechlin, 2007
DESGODINSIA Oberthür, 1914
PHILOSAMIA Grote, 1874

89.0074 S. cynthia (Drury, 1773) (Phalaena) I 7759
NOTE: This species was introduced to NA from Asia for silk production. It escaped captivity in various localities over the past century, but only maintains viable wild populations in isolated areas in the eastern USA. It is known in Canada from a specimen in the MMMN collected at London, ON by Norman Criddle in 1905, and from a specimen in the ROM from downtown Toronto, ON. It may well have established temporary populations in these places, but it is deemed to be extirpated in Canada.
advena (Watson, 1912) (Philosamia)
ailanthi (Weil, 1863) (Bombyx)
aurotus Fabricius, 1787 (Samia)
eulouvaina (Watson, 1914) (Philosamia)
parisiensis (Clément, 1902) (Attacus)
vera Girard, 1863 (Samia)
walkeri (Felder & Felder, 1862) (Attacus)

Genus ROTHSCHILDIA Grote, 1896

89.0075.1 R. forbesi Benjamin, 1934 (Rothschildia) REV. STAT. 7761
NOTE: Based on preliminary genetic observations, *forbesi* is reinstated as a valid species (rev. stat.), as inclusion within the species *R. lebeau* renders the latter paraphyletic. Recent work has suggested that other historical subspecies of *R. lebeau* (e.g., *R. inca* Rothschild, in Brechlin & Meister 2012) are readily distinct from "true" *R. lebeau* described from northern Venezuela. Morphological evidence supports the recognition of *R. forbesi* (and other subspecies) as a valid species as well (Zapata 2009).
draudti Benjamin, 1934 (Rothschildia)
lebeau of authors; (not Guérin-Méneville, 1868) (Attacus) misappl.
semiimmacula Gardiner, 1962 (Rothschildia)

89.0076 R. cinctus (Tepper, 1883) (Attacus) 7760
ssp. a. cinctus (Tepper, 1883) (Attacus)

89.0077 R. orizaba (Westwood, 1853) (Attacus) UNVER.; STRAY 7762
NOTE: Tuskes et al. (1996) reported "no recent valid records" from the USA, and excluded this species from the NA fauna. However, Ferguson (1972) discusses several historical specimens in the USNM from southern TX that appear to be legitimate records. The species is known to occur in northern Mexico, close to the TX border; we retain it in the NA list as an unverified stray species.
ochracea Draudt, 1929 (Rothschildia)
paradoxa Hoffmann, 1942 (Rothschildia)
prionidia Draudt, 1929 (Rothschildia)

Genus EUPACKARDIA Cockerell, 1912

89.0078 E. calleta (Westwood, 1853) (Saturnia) 7763
caeca Draudt, 1929 (Eupackardia)
digueti Bouvier, 1936 (Eupackardia)
polyommata (Tepper, 1883) (Platysamia)
semicaeca Cockerell, 1914 (Eupackardia)

Genus CALLOSAMIA Packard, 1864

89.0079 C. promethea (Drury, 1773) (Phalaena) 7764
caeca Cockerell, 1914 (Callosamia)

89.0080 C. angulifera (Walker, 1855) (Samia) 7765
atys (Dusuzeau & Sonthonnax, 1897) (Attacus)
aurantiaca Igel, 1928 (Callosamia)

89.0081 C. securifera (Maassen, [1873]) (Samia) 7766
carolina Jones, 1908 (Callosamia)

Genus HYALOPHORA Duncan [& Westwood], 1841
PLATYSAMIA Grote, 1865

89.0082 H. cecropia (Linnaeus, 1758) (Phalaena) 7767
albofasciata (Sageder, 1933) (Samia)
americana (Tutt, 1901) (Platysamia)
diana (Castiglioni, 1790) (Bombyx)
griffithsi (Tutt, 1901) (Platysamia)
heyeri (Tutt, 1901) (Platysamia)
macula (Reiff, 1911) (Samia)
obscura (Sageder, 1933) (Samia)
uhlerii (Polacek, 1928) (Samia)

89.0083 H. columbia (Smith, 1865) (Samia) 7768

89.0084 H. gloveri (Strecker, 1872) (Platysamia) 7769
NOTE: Raised from subspecies of *H. columbia* by Schmidt & Anweiler (in Pohl et al. 2010; Appendix). Maintained as such in Kitching & Rougerie et al. (2018).
nokomis (Brodie, 1894) (Platysamia)
NOTE: Informally synonymized with *H. gloveri* by Tuskes et al. (1996).
reducta (Neumoegen, 1891) (Platysamia)
winonah (Brodie, 1894) (Platysamia)

89.0085 H. euryalus (Boisduval, 1855) (Saturnia) 7770
californica (Genzke, 1859) (Platysamia)
californica (Grote, 1865) (Platysamia)
ceanothi (Boisduval, 1869) (Saturnia)
cedrosensis (Cockerell, 1914) (Samia)

89.0085.1 H. kasloensis (Cockerell, in: Packard, 1914) (Samia) [NEW]
NOTE: The taxon *kasloensis* is taxonomically problematic. Most recently, it was treated as a valid species by Kitching & Rougerie et al. (2018). Tuskes et al. (1996) considered it to have originated from *H. euryalis* x *H. gloveri* stock. However, the type is not a hybrid (the type locality is distant from extant *gloveri* populations) so the name is available. It was described as a race of *Samia (=Hyalophora) rubra*. Herein we continue to treat it as a valid species as the appropriate fit for this problematic taxon, but further research is warranted.
parvimacula (Grote, 1902) (Samia)
rubra (Neumoegen & Dyar, 1894) (Samia)

85. Family SPHINGIDAE Latreille, [1802] (sphinx moths)

by Ryan A. St Laurent & Ian J. Kitching

Sphingidae are medium-sized to very large charismatic moths (about 30 to 160 mm wingspan) that are familiar to the public and have served as model organisms in diverse fields of biological research. These moths are rapid fliers and are often confused with hummingbirds or bats. The family occurs worldwide, from the tropics to the boreal forests, with species present on every major land mass (except Antarctica), as well as on isolated oceanic islands. Their powerful flight capabilities have resulted in some of these insects having massive dispersal potential. This is important to realize when undertaking any location-specific faunal treatment of Sphingidae, which is the case here for NA, as many species have extensive distributions and even wider extralimital ranges, with tropical species regularly straying into, although not breeding in, the focal area of this volume.

Three subfamilies of Sphingidae occur in NA: Smerinthinae, Sphinginae, and Macroglossinae. Appearance and adult behavior vary rather dramatically among these groups, with adult Smerinthinae being largely non-feeding, short-lived species, usually with cryptic coloration on the forewings and, in several genera, distinct eye spots on the hindwings. In contrast, Sphinginae and Macroglossinae include rapidly flying, bee or hummingbirdlike insects, most of which feed as adults and are important pollinators. Several of these, especially species of *Hemaris*, *Amphion*, *Proserpinus*, and *Hyles,* are diurnal and are common sights on flowers.

Larvae of Sphingidae feed on a wide range of hosts, including trees and woody shrubs (Smerinthinae, several Sphinginae genera), but also herbaceous plants (especially among the Macroglossinae and some Sphinginae). The larvae are known colloquially as “hornworms” for the prominent hornlike projection from the terminal abdominal segment that is found in at least one instar of nearly all species in NA. Some species are minor garden pests, such as the Tobacco Hornworm and Tomato Hornworm (*Manduca sexta* and *M. quinquemaculatus*, respectively).

The systematics and taxonomy of Sphingidae have been studied extensively for centuries, especially the NA taxa. The first volume of the MONA series was devoted to Sphingidae (Hodges 1971), and a more recent major treatment was published by Tuttle (2007), which figured all species, including adults and most larvae. Less is known about the stray taxa, all of which are Neotropical in origin. The world checklist contained within Kitching & Rougerie et al. (2018) is the primary taxonomic resource used in the present checklist. However, justifications for the changes were not provided therein, so for the changes affecting NA species, the pertinent details are provided here in the species notes and Appendix I. About 1,600 species are known globally, 135 of which are known in NA (including one extirpated species).

Subfamily SPHINGINAE Latreille, [1802]

Tribe SPHINGINI Latreille, [1802]

Subtribe ACHERONTIINA Boisduval, [1875]

Genus AGRIUS Hübner, 1819

TIMORIA Kaye, 1919

89 0086 A. cingulata (Fabricius, 1775) (Sphinx) 7771
affinis (Goeze, 1780) (Sphinx)
decolora (Edwards, 1882) (Sphinx)
druraei (Donovan, 1810) (Sphinx)
pallida (Closs, 1917) (Herse)
pungens (Eschscholtz, 1821) (Sphinx)
tukurine (Lichy, 1943) (Herse)
ypsilon-nigrum Bryk, 1953 (Agrius)

XANTHOPAN GROUP OF GENERA Kitching, 2021

NOTE: This informal taxon is used here following the Sphingidae Taxonomic Inventory website (Kitching 2022), for those genera previously referred to as “Cocytiina Tutt, 1904”, as that family-group name is a junior homonym of Cocytiini Boisduval, 1828 in the Erebidae.

Genus COCYTIUS Hübner, [1819]

AMPHONYX Poey, 1832
ANCISTROGNATHUS Wallengren, 1858
MOROCOCYTIUS Eitschberger, 2006
PSEUDOCOCYTIUS Eitschberger, 2006

89 0087 C. antaeus (Drury, 1773) (Sphinx) 7772
annonae (Shaw, [1802]) (Sphinx)
henrici Pinchon, 1969 (Cocytius)
hydaspus (Cramer, [1777]) (Sphinx)
iatrophae (Fabricius, 1775) (Sphinx)
medor (Stoll, in: Cramer, [1782]) (Sphinx)
tapayusa (Moore, 1883) (Amphonyx)

89 0088 C. duponchel (Poey, 1832) (Amphonyx) STRAY 7773
NOTE: The taxa *kofleri*, *jamaicensis*, and *musgravei* (previously a synonym of *jamaicensis*) were synonymized with *C. duponchel* by Kitching & Rougerie et al. (2018), then again by Haxaire & Mielke (2020).
affinis Rothschild, 1894 (Cocytius)
godartii (Boisduval, [1875]) (Amphonyx)
jamaicensis (Eitschberger, 2006) (Amphonyx)
kofleri (Eitschberger, 2006) (Amphonyx)
musgravei Cary, 1955 (Cocytius)
rivularis (Butler, 1875) (Amphonyx)
roseus Gehlen, 1928 (Cocytius)

Genus NEOCOCYTIUS Hodges, 1971

89 0089 N. cluentius (Cramer, [1775]) (Sphinx) STRAY 7774

Subtribe SPHINGINA Latreille, [1802]

Genus MANDUCA Hübner, [1807]

CHLAENOGRAMMA Smith, 1887
DILUDIA Grote & Robinson, 1865
MACROSILA Walker, 1856
PHLEGETHONTIUS Hübner, [1819]
PROTOPARCE Burmeister, 1855

SYZYGIA Grote & Robinson, 1865

890090 M. sexta (Linnaeus, 1763) (Sphinx) 7775
ssp. a. sexta (Linnaeus, 1763) (Sphinx)
carolina (Linnaeus, 1764) (Sphinx)
lycopersici (Boisduval, [1875]) (Sphinx)

890091 M. quinquemaculatus (Haworth, 1803) (Sphinx) 7776
celeus (Hübner, [1821]) (Phlegethontius)
wirti (Schaus, 1927) (Protoparce)

890092 M. rustica (Fabricius, 1775) (Sphinx) 7778
ssp. a. rustica (Fabricius, 1775) (Sphinx)
auriflua (Gehlen, 1930) (Protoparce)
chionanthi (Smith, 1797) (Sphinx)

890093 M. brontes (Drury, 1773) (Sphinx) extralim. 7780
ssp. a. cubensis (Grote, 1865) (Sphinx)

890094 M. muscosa (Rothschild & Jordan, 1903) (Protoparce) 7781

890095 M. florestan (Stoll, in: Cramer, [1782]) (Sphinx) 7782
argentinica (Daniel, 1949) (Protoparce)
brevimargo (Butler, 1875) (Diludia)
cabnal (Schaus, 1932) (Protoparce)
maricina (Schaus, [1941]) (Protoparce)
vogli (Daniel, 1949) (Protoparce)

890096 M. jasminearum (Guérin-Méneville, [1832]) (Sphinx) 7783
rotundata (Rothschild, 1894) (Macrosila)

890097 M. occulta (Rothschild & Jordan, 1903) (Protoparce) 7777
pacifica (Mooser, 1940) (Protoparce)

890098 M. albiplaga (Walker, 1856) (Macrosila) STRAY 7779
exacta (Gehlen, 1928) (Protoparce)
trojanus (Schaufuss, 1891) (Sphinx)
valida (Boisduval, [1875]) (Sphinx)

890099 M. lanuginosa (Edwards, 1887) (Diludia) STRAY [NEW]
crocala (Druce, 1894) (Pseudosphinx)
hoffmanni (Clark, 1917) (Protoparce)
tepici (Clark, 1926) (Protoparce)

Genus DOLBA Walker, 1856

890100 D. hyloeus (Drury, 1773) (Sphinx) 7784
floridensis Clark, 1919 (Dolba)
hylaeus; [various, no date] (Dolba) missp.
prini (Smith, 1797) (Sphinx)
schausi Clark, 1917 (Dolba)

Genus DOLBOGENE Rothschild & Jordan, 1903

890101 D. hartwegii (Butler, 1875) (Dolba) 7785
clarki (Hoffmann, 1924) (Dolba)
manni Clark, 1917 (Dolbogene)

Genus CERATOMIA Harris, 1839
AUTOGRAMMA Jordan, 1946
DAREMMA Walker, 1856
ISOGRAMMA Rothschild & Jordan, 1903

890102 C. amyntor (Geyer, [1835]) (Agrius) 7786
quadricornis Harris, 1839 (Ceratomia)
ulmi Boisduval, [1875] (Ceratomia)

890103 C. undulosa (Walker, 1856) (Daremma) 7787
borealis Clark, 1929 (Ceratomia)
engeli Chermock & Chermock, 1940 (Ceratomia)
polingi Clark, 1929 (Ceratomia)
repentinus Clemens, 1859 (Ceratomia)

890104 C. sonorensis Hodges, 1971 (Ceratomia) 7788

890105 C. catalpae (Boisduval, [1875]) (Sphinx) 7789
kanawahensis Sweadner, Chermock & Chermock, 1940 (Ceratomia)
kansensis Howe & Howe, 1950 (Ceratomia)

890106 C. hageni Grote, 1874 (Ceratomia) 7790

890107 C. igualana Schaus, 1932 (Ceratomia) STRAY [NEW]

Genus ISOPARCE Rothschild & Jordan, 1903

890108 I. cupressi (Boisduval, [1875]) (Sphinx) 7791

Genus SAGENOSOMA Jordan, 1946
DICTYOSOMA Rothschild & Jordan, 1903

890109 S. elsa (Strecker, [1878]) (Sphinx) 7792

Genus PARATREA Grote, 1903
ATREIDES Holland, 1903
ATREUS Grote, 1886

890110 P. plebeja (Fabricius, 1777) (Sphinx) 7793

Genus SPHINX Linnaeus, 1758
ID INFO: Tuttle (2007); also Haxaire (2020).
HERSE Agassiz, [1846]
HERSE Oken, 1815
LETHIA Hübner, [1819]
SPECTRUM Scopoli, 1777

890111 S. chersis (Hübner, [1823]) (Lethia) 7802
NOTE: The taxa *oreodaphne* and *pallescens* were reinstated as subspecies by Kitching & Rougerie et al. (2018) without comment; their rationale is presented here in Appendix I.
cinerea Harris, 1839 (Sphinx)
ssp. a. chersis (Hübner, [1823]) (Lethia)
ssp. b. oreodaphne Edwards, 1873 (Sphinx)
ssp. c. pallescens (Rothschild & Jordan, 1903) (Hyloicus)

890112 S. vashti Strecker, [1878] (Sphinx) 7803
albescens Tepper, 1881 (Sphinx)
gerhardi (Barnes & Benjamin, 1924) (Hyloicus)
mordecai McDunnough, 1923 (Sphinx)

890113 S. libocedrus Edwards, 1881 (Sphinx) 7804
ssp. a. libocedrus Edwards, 1881 (Sphinx)
insolita Lintner, 1884 (Sphinx)

890114 S. perelegans Edwards, 1874 (Sphinx) 7805
vancouverensis Edwards, 1874 (Sphinx)

890115 S. asellus (Rothschild & Jordan, 1903) (Hyloicus) 7806

890116 S. canadensis Boisduval, [1875] (Sphinx) 7807
plota Strecker, 1875 (Sphinx)

890117 S. franckii Neumoegen, 1893 (Sphinx) 7808

890118 S. kalmiae Smith, 1797 (Sphinx) 7809

890119 S. gordius Cramer, [1779] (Sphinx) 7810
campestris McDunnough, 1931 (Sphinx)

890119.1 S. oslari (Rothschild & Jordan, 1903) (Hyloicus) [NEW]
NOTE: This species was revalidated by Kitching & Rougerie et al. (2018) without comment; their rationale is presented here in Appendix I.

890121 S. poecila Stephens, 1828 (Sphinx) [NEW]
borealis Clark, 1920 (Sphinx)
coxeyi Cadbury, 1931 (Sphinx)

890122 S. luscitiosa Clemens, 1859 (Sphinx) 7811
benjamini Clark, 1932 (Sphinx)
bombax Barnes & Benjamin, 1927 (Sphinx)
borealis Clark, 1931 (Sphinx)
una Skinner, 1903 (Sphinx)

890123 S. drupiferarum Smith, 1797 (Sphinx) 7812
marginalis Clark, 1936 (Sphinx)
utahensis Edwards, 1881 (Sphinx)

890124 S. dollii Neumoegen, 1881 (Sphinx) 7813
ssp. a. dollii Neumoegen, 1881 (Sphinx)
coloradus Smith, 1887 (Sphinx)
dolli; Clark, 1919 (Sphinx) missp.
ssp. b. australis Clark, 1922 (Sphinx)
NOTE: Kitching & Rougerie et al. (2018) reinstated *S. dollii australis* as a subspecies of *S. dollii*, and this treatment is maintained here. Haxaire (2020) provided additional information and figures supporting the maintenance of this subspecies.

890124.1 S. vanbuskirki Haxaire, 2020 (Sphinx) [NEW]

890125 S. sequoiae Boisduval, 1868 (Sphinx) 7814
engelhardti Clark, 1919 (Sphinx)
NOTE: Kitching & Rougerie et al. (2018) returned *engelhardti* to synonymy with *S. sequoiae* without further comment; their rationale is presented here in Appendix I.

890126 S. chisoya (Schaus, 1932) (Hyloicus) 7800

890127 S. leucophaeata Clemens, 1859 (Sphinx) [NEW]
aequinoctialis Boisduval, 1870 (Sphinx)
lanceolata Felder, 1868 (Sphinx)
leucophaeta; Hodges, 1983 (Sphinx) missp. *[7801]*

Genus HYLOICUS Hübner, [1819]
HYLOECUS Agassiz, 1846
HYLOECUS Kuznetsova, 1906

890127.5X H. pinastri (Linnaeus, 1758) (Sphinx) EXTIRPATED I 7815
NOTE: Introduced at various times to NA, and populations persisted for some time, but none currently exist here (Tuttle 2007). Assignment to *Hyloicus* follows Zolotuhin & Yevdoshenko (2019).
asiaticus Butler, 1875 (Hyloicus)
cenisius Jordan, 1931 (Hyloicus)
euxinus Derzhavets, 1979 (Hyloicus)
medialis Jordan, 1931 (Hyloicus)
saniptri (Strecker, 1876) (Sphinx)

Genus LINTNERIA Butler, [1876]
GARGANTUA Kirby, 1892
MESOSPHINX Cockerell, 1920

890128 L. eremitus (Hübner, [1823]) (Agrius) 7796
mccrearyi (Clark, 1929) (Sphinx)
sordida (Harris, 1839) (Sphinx)
890129 L. geminus (Rothschild & Jordan, 1903) (Hyloicus) STRAY 7795
NOTE: This species is a stray in TX that was improperly excluded by Tuttle (2007).
890130 L. eremitoides (Strecker, 1874) (Sphinx) 7797
890131 L. separatus (Neumoegen, 1885) (Sphinx) 7798
melaena (Rothschild & Jordan, 1916) (Sphinx)
890132 L. istar (Rothschild & Jordan, 1903) (Hyloicus) 7799
890133 L. smithi (Cadiou, 1998) (Sphinx) [NEW]
890134E L. lugens (Walker, 1856) (Sphinx) EXCL. 7794
NOTE: Reported as a possible stray in NA by Hodges (1971); Tuttle (2007) could find no valid records so we treat the species as "excluded" herein. It is possible that historical NA records represent misidentified *L. geminus*.

Genus LAPARA Walker, 1856
ELLEMA Clemens, 1859
EXEDRIUM Grote, 1882

890135 L. coniferarum (Smith, 1797) (Sphinx) 7816
cana (Martyn, 1797) (Sphinx)
halicarnie (Strecker, 1880) (Sphinx)
890136 L. bombycoides Walker, 1856 (Lapara) 7817
harrisii (Clemens, 1859) (Ellema)
pineum (Lintner, [1872]) (Ellema)
890137 L. phaeobrachycerous Brou, 1994 (Lapara) [NEW]

Subfamily SMERINTHINAE Grote & Robinson, 1865

Tribe AMBULYCINI Butler, 1876

Genus PROTAMBULYX Rothschild & Jordan, 1903
ID INFO: Eitschberger (2015).
AMBULYX Burmeister, 1855
AMBULYX Herrich-Schäffer, [1854]
AMBULYX Lucas, 1857
AMBULYX Walker, 1856

890138 P. strigilis (Linnaeus, 1771) (Sphinx) 7818
mariesophieae Eitschberger, 2015 (Protambulyx)
NOTE: Junior synonym synonymized in Kitching & Rougerie et al. (2018).
portoricensis Clark, 1931 (Protambulyx)
rubripennis (Butler, 1876) (Ambulyx)
turarem Lichy, 1943 (Protambulyx)
890138.1 P. carteri Rothschild & Jordan, 1903 (Protambulyx) 7819
NOTE: Considered a valid species by Kitching & Rougerie et al. (2018) following Eitschberger (2015).

Genus ADHEMARIUS Oiticica, 1939

890139 A. blanchardorum (Hodges, 1985) (Amplypterus) [NEW]
donysa of authors; (not Druce, 1889) (Ambulyx) misappl. [7820]

Tribe SMERINTHINI Grote & Robinson, 1865

Genus SMERINTHUS Latreille, [1802]
BEBROPTERA Sodoffsky, 1837
BELLIA Tutt, 1902
BELLINCA Strand, 1943
COPISMERINTHUS Grote, 1886
DADDIA Tutt, 1902
DILINA Dalman, 1816
EUSMERINTHUS Grote, 1877
MERINTHUS Meigen, 1830
NICHOLSONIA Tutt, 1902
NIIA Strand, 1943

890140 S. jamaicensis (Drury, 1773) (Sphinx) 7821
clarkii Franck, 1913 (Smerinthus)
flavitincta Nixon, 1912 (Smerinthus)
gamma Cockerell, 1925 (Smerinthus)
geminatus Say, 1824 (Smerinthus)
tripartitus (Grote, 1886) (Calasymbolus)
890141 S. cerisyi Kirby, 1837 (Smerinthus) 7822
borealis Clark, 1929 (Smerinthus)
890141.1 S. astarte Strecker, [1885] (Smerinthus) [NEW]
NOTE: This taxon was reinstated as a valid species by Kitching & Rougerie et al. (2018) without comment; their rationale is presented here in Appendix I.
890142 S. ophthalmica Boisduval, 1855 (Smerinthus) [NEW]
NOTE: Raised from synonymy by Schmidt & Anweiler (in Pohl et al. 2010; Appendix).
nigrescens Clark, 1919 (Smerinthus)
pallidulus Edwards, 1875 (Smerinthus)
vancouverensis Butler, 1877 (Smerinthus)
890143E S. saliceti Boisduval, [1875] (Smerinthus) EXCL. 7823
NOTE: See Appendix I for an explanation for the current situation regarding NA *Smerinthus* species. NA populations formally known as *S. saliceti* are here provisionally considered to be *S. astarte* and not *S. saliceti*, a Mexican species excluded from the NA fauna.

Genus PAONIAS Hübner, [1819]
CALASYMBOLUS Grote, 1873

890144 P. excaecata (Smith, 1797) (Sphinx) 7824
borealis (Clark, 1929) (Calasymbolus)
pavonina Geyer, 1837 (Paonias)
pecosensis Cockerell, 1905 (Paonias)
890144.1 P. macrops (Gehlen, 1933) (Calasymbolus) REV. STAT. [NEW]
NOTE: We treat *P. macrops* as a full species (rev. stat.) and transfer the synonymy of *emmeli* to *P. macrops* (rev. syn.); see Appendix I for details.
emmeli Eitschberger, 2002 (Paonias) REV. SYN.
890145 P. myops (Smith, 1797) (Sphinx) 7825
NOTE: The taxa *hyatti* and *oplerorum* were synonymized by Tuttle (2007).
cerasi (Boisduval, [1875]) (Smerinthus)
hyatti Eitschberger, 2002 (Paonias)
mccrearyi (Clark, 1929) (Calasymbolus)
occidentalis (Clark, 1919) (Calasymbolus)
oplerorum Eitschberger, 2002 (Paonias)
rosacearum (Boisduval, 1836) (Smerinthus)
sorbi (Boisduval, [1875]) (Smerinthus)
tiliastri (Boisduval, [1875]) (Smerinthus)
890146 P. astylus (Drury, 1773) (Sphinx) 7826
integerrima (Harris, 1833) (Smerinthus)
io (Guérin-Méneville, [1832]) (Sphinx)

Genus PACHYSPHINX Rothschild & Jordan, 1903

890148 P. modesta (Harris, 1839) (Smerinthus) 7828
borealis Clark, 1929 (Pachysphinx)
cablei (Reizenstein, 1881) (Smerinthus)
populicola (Boisduval, [1875]) (Smerinthus)
princeps (Walker, 1856) (Smerinthus)
890149 P. occidentalis (Edwards, 1875) (Smerinthus) 7829
ssp. a. occidentalis (Edwards, 1875) (Smerinthus)
imperator (Strecker, [1878]) (Smerinthus)
kunzei Rothschild & Jordan, 1903 (Pachysphinx)
regalis Rothschild & Jordan, 1903 (Pachysphinx)

Tribe MIMATINI Tutt, 1902

Genus AMORPHA Hübner, 1809
CRESSONIA Grote & Robinson, 1865

890149.5 A. juglandis (Smith, 1797) (Sphinx) 7827
alpina (Clark, 1927) (Cressonia)
hyperbola (Slosson, 1890) (Cressonia)
instibilis (Martyn, 1797) (Sphinx)
manitobae (Clark, 1930) (Cressonia)
pallens (Strecker, 1873) (Smerinthus)
robinsonii (Butler, 1876) (Cressonia)

Subfamily MACROGLOSSINAE Harris, 1839

Tribe DILOPHONOTINI Burmeister, 1878

Subtribe DILOPHONOTINA Burmeister, 1878

Genus PSEUDOSPHINX Burmeister, 1855
MACROSILA Lucas, 1857

8900150 P. tetrio (Linnaeus, 1771) (Sphinx) 7830
albina Gehlen, 1941 (Pseudosphinx)
hasdrubal (Cramer, [1779]) (Sphinx)
lucia Moosburg, 1996 (Pseudosphinx)
obscura Butler, 1876 (Pseudosphinx)
plumieriae (Fabricius, 1793) (Sphinx)
suelii Moosburg, 1996 (Pseudosphinx)

Genus ISOGNATHUS Felder & Felder, 1862
TATOGLOSSUM Butler, 1876

8900151 I. rimosa (Grote, 1865) (Erinnyis) extralim.; STRAY 7831
ssp. a. inclitus (Edwards, 1887) (Erinnyis) (stray)

Genus ERINNYIS Hübner, [1819]
ANCERYX Lucas, 1857
ANCERYX Walker, 1856
DILOPHONOTA Burmeister, 1855

8900152 E. alope (Drury, 1773) (Sphinx) 7832
ssp. a. alope (Drury, 1773) (Sphinx)
edwardsii (Butler, 1881) (Anceryx)
fasciata (Swainson, 1823) (Sphinx)
flavicans (Goeze, 1780) (Sphinx)
8900153 E. lassauxii (Boisduval, 1859) (Anceryx) 7833
cercyon (Burmeister, 1878) (Dilophonota)
janiphae (Boisduval, [1875]) (Anceryx)
merianae Grote, 1865 (Erinnyis)
omphaleae (Boisduval, 1870) (Anceryx)
piperis (Schaufuss, 1870) (Anceryx)
8900154 E. ello (Linnaeus, 1758) (Sphinx) 7834
ssp. a. ello (Linnaeus, 1758) (Sphinx)
cinifera Zikán, 1934 (Erinnyis)
omorfia Mooser, 1942 (Erinnyis)
8900155 E. crameri (Schaus, 1898) (Dilophonota) 7836
8900156 E. obscura (Fabricius, 1775) (Sphinx) 7837
ssp. a. obscura (Fabricius, 1775) (Sphinx)
cinerosa Grote, 1865 (Erinnyis)
domingonis (Butler, 1875) (Dilophonota) *[7838]*
festa (Edwards, 1882) (Dilophonota)
jamaicensis Clark, 1935 (Erinnyis)
pallescens Clark, 1936 (Erinnyis)
picta (Sepp, 1848) (Sphinx)
rhaebus (Boisduval, [1870]) (Anceryx)
rustica (Schaller, 1788) (Sphinx)
8900157 E. oenotrus (Cramer, [1780]) (Sphinx) STRAY 7835
hippothoon (Burmeister, 1878) (Dilophonota)
melancholica Grote, 1865 (Erinnyis)
penaeus (Fabricius, 1787) (Sphinx)
piperis (Grote & Robinson, 1868) (Anceryx)
8900158 E. yucatana (Druce, 1888) (Isognathus) STRAY [NEW]
8900159.1 E. cubensis Melichar, Řezáč, Haxaire & Ilčiková, 2015 (Erinnyis) STRAY [NEW]
NOTE: This species was previously known as *E. guttularis* (Walker); the Cuban populations (from which the stray FL records are assumed to have originated) were raised to species status by Melichar et al. (2015).
guttularis of authors; (not Walker, 1856) (Anceryx) misappl. *[7839]*

Genus PHRYXUS Hübner, [1819]
GRAMMODIA Rothschild & Jordan, 1903

8900160 P. caicus (Cramer, [1777]) (Sphinx) 7840

Genus PACHYLIA Walker, 1856
PACHYLIA Lucas, 1857

8900161 P. ficus (Linnaeus, 1758) (Sphinx) 7841
aterrima Bönninghausen, 1899 (Pachylia)
crameri (Ménétriés, 1857) (Chaerocampa)
lyncea Clemens, 1859 (Pachylia)
undatifascia Butler, 1876 (Pachylia)
venezuelensis Schaufuss, 1870 (Pachylia)

Genus PACHYLIOIDES Hodges, 1971

8900162 P. resumens (Walker, 1856) (Pachylia) UNVER.; STRAY 7842
NOTE: Reports of NA specimens are doubtful, probably mislabeled (Tuttle 2007).
inconspicua (Walker, 1856) (Pachylia)
tristis (Boisduval, [1875]) (Pachylia)
versuta (Clemens, 1859) (Chaerocampa)

Genus MADORYX Boisduval, [1875]

8900163 M. pseudothyreus (Grote, 1865) (Hemeroplanes) extralim. 7843
ssp. a. floridensis Melichar & Řezáč, [2014] (Madoryx)

Genus CALLIONIMA Lucas, 1857
CALLIOMMA Walker, 1856
EUCHERYX Boisduval, [1875]

8900164 C. falcifera (Gehlen, 1943) (Hemeroplanes) STRAY 7845
elainae (Neidhoefer, 1968) (Hemeroplanes)
guaycura (Cary, 1963) (Hemeroplanes)
jamaicensis (Cary, 1951) (Hemeroplanes)
parce of authors; (not Fabricius, 1775) (Sphinx) misid. *[7844]*
NOTE: Hodges (1971) reported *C. parce* from NA, but those records are now thought to be misidentified *C. falcifera*. The status of *C. parce* in NA was listed as uncertain by Tuttle (2007). The only *Callionima* species present in NA is *C. falcifera*.

Genus PERIGONIA Herrich-Schäffer, [1854]
PERIGONIA Walker, 1856
STENOLOPHIA Felder & Felder, 1874

8900166 P. lusca (Fabricius, 1777) (Sphinx) 7846
ssp. a. lusca (Fabricius, 1777) (Sphinx)
affinis (Schaufuss, 1870) (Macroglossa)
bahamensis Clark, 1919 (Perigonia)
doto (Schaufuss, 1870) (Macroglossa)
interrupta Walker, [1865] (Perigonia)
major Clark, 1928 (Perigonia)
restituta Walker, [1865] (Perigonia)
tenebrosa (Felder & Felder, 1874) (Stenolophia)

Genus EUPYRRHOGLOSSUM Grote, 1865

8900167 E. sagra (Poey, 1832) (Macroglossum) [NEW]
harpyia (Schaufuss, 1870) (Macroglossa)
sagra (Walker, 1856) (Macroglossa)

Genus AELLOPOS Hübner, [1819]

8900168 A. tantalus (Linnaeus, 1758) (Sphinx) 7847
ssp. a. tantalus (Linnaeus, 1758) (Sphinx)
ixion (Linnaeus, 1758) (Sphinx)
sisyphus (Burmeister, 1855) (Macroglossa)
8900169 A. clavipes (Rothschild & Jordan, 1903) (Sesia) 7848
ssp. a. clavipes (Rothschild & Jordan, 1903) (Sesia)
8900170 A. titan (Cramer, [1777]) (Sphinx) 7849
ssp. a. titan (Cramer, [1777]) (Sphinx)
aguacana (Gehlen, 1944) (Sesia)
8900171 A. fadus (Cramer, [1775]) (Sphinx) STRAY 7850
annulosum (Swainson, 1823) (Macroglossum)
balteata (Kirtland, 1851) (Macroglossa)
flavosignata (Closs, 1916) (Sesia)

Subtribe PHILAMPELINA Burmeister, 1878

Genus ENYO Hübner, [1819]
EPISTOR Boisduval, [1875]
TRIPTOGON Ménétriés, 1857

8900172 E. lugubris (Linnaeus, 1771) (Sphinx) 7851
ssp. a. lugubris (Linnaeus, 1771) (Sphinx)
fegeus (Cramer, [1779]) (Sphinx)
luctuosus (Boisduval, [1875]) (Epistor)
8900173 E. ocypete (Linnaeus, 1758) (Sphinx) 7852

camertus (Cramer, [1779]) (Sphinx)
danum (Cramer, [1779]) (Sphinx)
rufa Raymundo da Silva, 1932 (Enyo)

Genus CAUTETHIA Grote, 1865
BRAESIA Grote & Robinson, 1868
OENOSANDA Walker, 1856

890174 C. grotei Edwards, 1882 (Cautethia) 7867
ssp. a. grotei Edwards, 1882 (Cautethia)
890175 C. spuria (Boisduval, [1875]) (Oenosanda) 7868
890176E C. yucatana Clark, 1919 (Cautethia) EXCL. 7869
NOTE: This species was listed for NA by Hodges (1971), but Tuttle (2007) considered it a dubious stray for NA and it is hereby excluded from the NA fauna.

Genus EUMORPHA Hübner, [1807]
ARGEUS Hübner, [1819]
DUPO Hübner, [1819]
PHILAMPELUS Harris, 1839
PHOLUS Hübner, [1819]

890181 E. satellitia (Linnaeus, 1771) (Sphinx) extralim. 7858
ssp. a. licaon (Cramer, [1776]) (Sphinx)
lycaon; (Grote, 1865) (Philampelus) missp.
macasensis (Clark, 1922) (Pholus)
ssp. b. posticatus (Grote, 1865) (Philampelus) (stray)
cinnamomea Cary, 1951 (Eumorpha)
890182 E. pandorus (Hübner, [1821]) (Daphnis) 7859
ampelophaga (Walker, 1856) (Philampelus)
890183 E. intermedia (Clark, 1917) (Pholus) 7860
890184 E. achemon (Drury, 1773) (Sphinx) 7861
crantor (Cramer, [1777]) (Sphinx)
trigon (Gehlen, 1926) (Pholus)
890185 E. typhon (Klug, 1836) (Sphinx) 7863
890186 E. vitis (Linnaeus, 1758) (Sphinx) 7864
ssp. a. vitis (Linnaeus, 1758) (Sphinx)
hornbeckiana (Harris, 1839) (Philampelus)
linnei (Grote & Robinson, 1865) (Philampelus)
pallida (Closs, 1917) (Pholus)
890187 E. fasciatus (Sulzer, 1776) (Sphinx) 7865
ssp. a. fasciatus (Sulzer, 1776) (Sphinx)
jussieuae (Hübner, [1819]) (Dupo)
strigilis (Vogel, 1822) (Sphinx)
890188 E. labruscae (Linnaeus, 1758) (Sphinx) 7866
clotho (Fabricius, 1775) (Sphinx)
yupanquii (Kernbach, 1962) (Pholus)
890189 E. megaeacus (Hübner, [1819]) (Daphnis) STRAY [NEW]
NOTE: This replacement name for *Sphinx eacus* Cramer, [1780] (a junior primary homonym of *Sphinx aeacus* [Denis & Schiffermüller], 1775) has been widely misspelled as "*megeacus*", including by Pohl et al. (2016).
eacus (Cramer, [1780]) (Sphinx) preocc. [7862]
megeacus; [various, no date] (Eumorpha) missp.
890190 E. anchemolus (Cramer, [1779]) (Sphinx) STRAY 7857
major (Burmeister, 1878) (Philampelus)
890191 E. elisa (Smyth, 1901) (Philampelus) STRAY [NEW]
NOTE: Now recognized within the NA fauna (AZ), based on a record in the 2010 Season Summary of the Lepidopterists' Society (2011). It is hereby considered a stray.

Genus SPHECODINA Blanchard, 1840
BRACHYNOTA Boisduval, 1870
MAREDUS Kirby, 1880
THYREUS Swainson, 1821

890192 S. abbottii (Swainson, 1821) (Thyreus) 7870

Genus AMPHION Hübner, [1819]

890194 A. floridensis Clark, 1920 (Amphion) 7873
nessus (Cramer, [1777]) (Sphinx)

Genus PROSERPINUS Hübner, [1819]
ARCTONOTUS Boisduval, 1852
DIENECES Butler, 1881
LEPISESIA Grote, 1865
POGOCOLON Boisduval, [1875]
PTEROGON Boisduval, 1828
PTEROPOGON Meigen, 1829

890195 P. lucidus (Boisduval, 1852) (Arctonotus) 7872
clarki (Barnes & Benjamin, 1923) (Arctonotus)
890196 P. gaurae (Smith, 1797) (Sphinx) 7874
circae Edwards, 1882 (Proserpinus)
deceptiva Barnes & Benjamin, 1924 (Proserpinus)
890197 P. juanita (Strecker, [1876]) (Pterogon) 7875
oslari Rothschild & Jordan, 1903 (Proserpinus)
890198 P. clarkiae (Boisduval, 1852) (Pterogon) 7876
victoria (Grote, 1874) (Lepisesia)
890199 P. flavofasciata (Walker, 1856) (Macroglossa) 7877
rachel (Bruce, 1901) (Lepisesia)
ulalume (Strecker, 1878) (Macroglossa)
890200 P. vega (Dyar, 1903) (Lepisesia) 7878
890201 P. terlooii Edwards, 1875 (Proserpinus) 7879
mooseri (Clark, 1937) (Arctonotus)
terlootii; (Barnes & Benjamin, 1927) (Arctonotus) missp.

Genus EUPROSERPINUS Grote & Robinson, 1865

890202 E. phaeton Grote & Robinson, 1865 (Euproserpinus) 7880
erato (Boisduval, 1868) (Macroglossa)
mojave Comstock, 1938 (Euproserpinus)
890203 E. euterpe Edwards, 1888 (Euproserpinus) 7881
890204 E. wiesti Sperry, 1939 (Euproserpinus) 7882

Tribe HEMARINI Tutt, 1902

Genus HEMARIS Dalman, 1816
ID INFO: Tuttle (2007); also Schmidt (2009c, 2018a).
AEGE Felder & Felder, 1874
CHAMAESESIA Grote, 1873
COCHRANIA Tutt, 1902
EITSCHBERGERA Kemal & Koçak, 2005
HAEMORRHAGIA Grote & Robinson, 1865
HEMARIA Billberg, 1820
JILINGA Eitschberger, Danner & Surholt, 1998
MANDARINA Eitschberger, Danner & Surholt, 1998
NEOJILINGA Zhang, 2013
SAUNDERSIA Eitschberger, Danner & Surholt, 1998

890204.3 H. thysbe (Fabricius, 1775) (Sesia) 7853
buffaloensis (Grote & Robinson, 1867) (Haemorrhagia)
cimbiciformis (Stephens, 1828) (Sesia)
etolus (Boisduval, [1875]) (Macroglossa)
floridensis (Grote & Robinson, 1867) (Haemorrhagia)
fuscicaudis (Walker, 1856) (Sesia)
pelasgus (Cramer, [1779]) (Sphinx)
pyramus (Boisduval, [1875]) (Macroglossa)
ruficaudus (Kirby, 1837) (Sesia)
uniformis (Grote & Robinson, 1868) (Sesia)
890204.4 H. gracilis (Grote & Robinson, 1865) (Haemorrhagia) 7854
890204.5 H. diffinis (Boisduval, 1836) (Macroglossa) 7855
ariadne (Barnes & McDunnough, 1910) (Haemorrhagia)
axillaris (Grote & Robinson, 1868) (Sesia)
fumosa (Strecker, 1874) (Macroglossa)
grotei (Butler, 1874) (Sesia)
marginalis Grote, 1873 (Hemaris)
metathetis Butler, 1876 (Hemaris)
tenuis Grote, 1873 (Hemaris)
890204.6 H. thetis (Boisduval, 1855) (Macroglossa) [NEW]
brucei French, 1890 (Hemaris)
cynoglossum Edwards, 1875 (Hemaris)
heppneri Eitschberger, Danner & Surholt, 1996 (Hemaris)
jordani Barnes & Benjamin, 1927 (Hemaris)
mcdunnoughi Clark, 1927 (Hemaris)
minima Frankenbusch, 1925 (Hemaris)
NOTE: The TL was originally given as Palaearctic, but that is erroneous; the sole type is a Nearctic specimen (Schmidt 2009c).
palpalis Grote, 1874 (Hemaris)
rubens Edwards, 1875 (Hemaris)
senta (Strecker, 1878) (Macroglossa) [7856]
890204.7 H. aethra (Strecker, 1875) (Macroglossa) [NEW]
NOTE: Revised status following Schmidt (2018a).

Tribe MACROGLOSSINI Harris, 1839

Subtribe ACOSMERYGINA Tutt, 1904

Genus DEIDAMIA Clemens, 1859
TRICHOLON Boisduval, [1875]

89.0204.8 D. inscriptum (Harris, 1839) (Pterogon) 7871

Subtribe MACROGLOSSINA Harris, 1839

Genus MACROGLOSSUM Scopoli, 1777

89.0205 M. stellatarum (Linnaeus, 1758) (Sphinx) STRAY 7883
NOTE: Most records of this species in NA are thought to be unestablished introductions, but one record, from Umiak Island of the Eastern Aleutians, AK, is thought to be an unassisted stray (Pittaway & Kitching 2020) so the species is included in the NA list. More recently it has been spotted in CA (BugGuide.org) where it may be introduced.

Subtribe CLARININA Tutt, 1904

Genus DARAPSA Walker, 1856
AMPELOECA Rothschild & Jordan, 1903
EVERYX Ménétriés, 1857
OTUS Hübner, [1819]

89.0206 D. versicolor (Harris, 1839) (Choerocampa) 7884
lutescens (Clark, 1920) (Ampeloeca)
89.0207 D. myron (Cramer, [1779]) (Sphinx) 7885
ssp. a. myron (Cramer, [1779]) (Sphinx)
cnotus (Hübner, [1823]) (Otus)
isatis (Debauche, 1934) (Ampeloeca)
lutescens (Clark, 1920) (Ampeloeca)
pampinatrix (Smith, 1797) (Sphinx)
texana (Clark, 1920) (Ampeloeca)
89.0208 D. choerilus (Cramer, [1779]) (Sphinx) [NEW]
azaleae (Smith, 1797) (Sphinx)
brodiei Clark, 1929 (Darapsa)
chlorinda; (Rothschild & Jordan, 1903) (Sphinx) missp.
clorinda (Martyn, 1797) (Sphinx) unavail.
flavescens Closs, 1911 (Darapsa)
pholus (Cramer, [1776]) (Sphinx) [7886]

Subtribe CHOEROCAMPINA Grote & Robinson, 1865

Genus XYLOPHANES Hübner, [1819]
DEILONCHE Grote, 1886
DILONCHE Kirby, 1897
ISOPLES Hübner, [1819]

89.0209 X. pluto (Fabricius, 1777) (Sphinx) 7887
croesus (Dalman, 1823) (Sphinx)
ochracea (Walker, 1856) (Calliomma)
thorates (Hübner, [1827-1831]) (Oreus)
89.0210 X. falco (Walker, 1856) (Chaerocampa) 7889
fugax (Boisduval, 1870) (Chaerocampa)
mexicana (Erschoff, 1877) (Choerocampa)
89.0211 X. tersa (Linnaeus, 1771) (Sphinx) 7890
ssp. a. tersa (Linnaeus, 1771) (Sphinx)
cubensis Gehlen, 1941 (Xylophanes)
tristis Closs, 1918 (Xylophanes)
89.0212 X. porcus (Hübner, 1823) (Oreus) STRAY 7888
ssp. a. porcus (Hübner, 1823) (Oreus) (stray)
89.0213 X. libya (Druce, 1878) (Choerocampa) STRAY 7891
pallescens Closs, 1917 (Xylophanes)
89.0214 X. ceratomioides (Grote & Robinson, 1866) (Choerocampa) STRAY [NEW]
anubus (Walker, 1856) (Pergesa)
capreolus (Schaufuss, 1870) (Anceryx)
minos (Ménétriés, 1857) (Choerocampa)

Genus HYLES Hübner, 1819
CELERIO Agassiz, 1846
CELERIO Oken, 1815
DANNERIA Eitschberger & Zolotuhin, 1998
EREMOHYLES Eitschberger & Zolotuhin, 1998
HAWAIINA Tutt, 1903
HIPPOHYLES Eitschberger & Zolotuhin, 1998
ROMMELIANA Eitschberger & Zolotuhin, 1998
SURHOLTIA Eitschberger & Zolotuhin, 1998
THAUMAS Hübner, [1819]
TURNERIA Tutt, 1903
WEISMANNIA Tutt, 1904

89.0215 H. euphorbiae (Linnaeus, 1758) (Sphinx) I 7892
NOTE: This species was introduced from Europe to Canada for biocontrol of spurge (*Euphorbia* spp.; Euphorbiaceae), first in ON in 1965 (Kelleher & Hulme 1984). It was also released in USA beginning in NY in 1977. It has since become established across much of NA (Tuttle 2007).
calverleyi (Grote, 1865) (Deilephila)
conspicua (Rothschild & Jordan, 1903) (Celerio)
cretica Eitschberger, Danner & Surholt, 1998 (Hyles)
deserticola (Staudinger, 1901) (Deilephila)
dolomiticola (Stauder, 1930) (Celerio)
elisabethae Ebert, 1996 (Hyles)
esulae (Boisduval, 1834) (Deilephila)
esulae (Hufnagel, 1766) (Phalaena)
etrusca (Verity, 1911) (Deilephila)
gallaeci Gil-T., Requejo & Estévez, 2011 (Hyles)
gecki de Freina, 1991 (Hyles)
himyarensis Meerman, 1988 (Hyles)
lucida (Derzhavets, 1980) (Celerio)
orientalis (Ebert, 1969) (Celerio)
paralias (Nickerl, 1837) (Deilephila)
peplidis (Christoph, 1894) (Deilephila)
phaelipae Gil-T. & Gil-Uceda, 2012 (Hyles)
robertsi (Butler, 1880) (Deilephila)
rothschildi (Stauder, 1928) (Celerio)
saharae (Günther, 1939) (Celerio)
sammuti Eitschberger, Danner & Surholt, 1998 (Hyles)
sinensis (Closs, 1917) (Celerio)
strasillai (Stauder, 1921) (Celerio)
subiacensis (Dannehl, 1929) (Celerio)
tiithymali (Boisduval, 1834) (Deilephila)
vandalusica (Ribbe, 1910) (Celerio)
89.0216 H. gallii (Rottemburg, 1775) (Sphinx) H 7893
NOTE: Zolotuhin & Yevdoshenko (2019) were highly ambiguous in whether or not they accepted subspecies in *H. gallii*; certainly they did not formally reinstate any taxa to this status, even though such names were used in the figure legends. Here, we follow Hundsdoerfer et al. (2017) and do not recognize any subspecies as there is no clear evidence of population structure warranting such status.
canadensis (Guenée, 1868) (Deilephila)
chamaenerii (Harris, 1839) (Deilephila)
chishimana (Matsumura, 1929) (Celerio)
cuspidate (Fritsch, 1916) (Deilephila)
dentata (Gschwandner, 1912) (Deilephila)
epilobii (Harris, 1833) (Sphinx)
flavescens (Closs, 1920) (Celerio)
galii ([Denis & Schiffermüller], 1775) (Sphinx)
galii (Kirby, 1892) (Deilephila)
galii (Kuznetsova, 1906) (Celerio)
grisea (Tutt, 1904) (Celerio)
grisescens (Bandermann, 1932) (Celerio)
heliophila (Eichler, 1971) (Celerio)
incompleta (Tutt, 1904) (Celerio)
intermedia (Kirby, 1837) (Deilephila)
lata (Tutt, 1904) (Celerio)
lutea (Gschwandner, 1912) (Deilephila)
maculifera (Klemensiewicz, 1912) (Deilephila)
nepalensis (Daniel, 1961) (Celerio)
oxybaphi (Clemens, 1859) (Deilephila)
pallida (Tutt, 1904) (Celerio)
postrufescens (Lempke, 1959) (Celerio)
sachaliensis (Matsumura, 1929) (Celerio)
scholzi (Stephan, 1924) (Celerio)
stricta (Tutt, 1904) (Celerio)
testacea (Wladasch, 1933) (Celerio)
tibetanica (Eichler, 1971) (Celerio)
89.0217 H. lineata (Fabricius, 1775) (Sphinx) 7894
americana (Laporte, 1830) (Sphinx)
daucus (Cramer, [1777]) (Sphinx)
florilega (Kernbach, 1962) (Celerio)
lineatoides (Gehlen, 1934) (Celerio)

Genus DEILEPHILA [Laspeyres], 1809

890218 D. elpenor (Linnaeus, 1758) (Sphinx) I [NEW]
NOTE: Reported for NA by Tuttle (2007). Introduced from Europe to BC, first collected in 2002; known so far only from southern BC and northern WA.

lewisii (Butler, 1875) (Chaerocampa)
macromera (Butler, 1875) (Chaerocampa)
szechuana (Chu & Wang, 1980) (Pergesa)

Superfamily GEOMETROIDEA [Leach, 1815]

86. Family URANIIDAE [Leach, 1815] (scoopwings and sunset moths)

by B. Christian Schmidt

The Uraniidae comprise two subfamilies that superficially are very different in appearance: the large, spectacular sunset moths (Uraniinae; wingspan of about 65 mm in the sole NA species) and the small, somber scoopwings (Epipleminae; wingspans of 15 to 20 mm). The family shares unique features of the tympanum morphology and wing venation. There are no resident species of Uraniinae in NA, although one Neotropical species occasionally appears in the southern USA as a stray. Epipleminae are small, cryptically colored moths reminiscent of geometrids. Epiplemines exhibit a unique resting behavior, often recognizable by silhouette: the forewings are pressed close to the substrate and held forward of the hindwings, the latter held partially folded along the side of the abdomen. Larvae often live in groups and may form a web. Eleven Epipleminae species occur in NA, most of which feed on shrubs in the family Caprifoliaceae.

With about 700 species globally, uraniids are most diverse in the New and Old World tropics; 12 species occur in NA. There are no comprehensive taxonomic treatments of the NA fauna.

Subfamily EPIPLEMINAE Hampson, [1893] 1892

Genus EPIPLEMA Herrich-Schäffer, 1855
EVERSMANNIA Staudinger, 1871

91a0001 E. incolorata (Guenée, [1858]) (Erosia) 7649

Genus CALLIZZIA Packard, 1876

91a0002 C. amorata Packard, 1876 (Callizzia) 7650
91a0003 C. certiorata Pearsall, 1906 (Callizzia) [NEW]
certiorara Ferguson, 1983 (Callizzia) *[7651]*

Genus ANTIPLECTA Warren, 1900

91a0004 A. triangularis Warren, 1906 (Antiplecta) 7652
91a0005E A. ineptaria Möschler, 1890 (Antiplecta) EXCL. [NEW]
NOTE: This species was reported in NA (NC) by Pohl et al. (2016). It was based on a BOLD record that has since been redetermined as *Philagraula slossonae*. *Antiplecta ineptaria* does not occur in NA.

Genus CALLEDAPTERYX Grote, 1868

91a0006 C. dryopterata Grote, 1868 (Calledapteryx) 7653
erosiata Packard, 1876 (Calledapteryx)

Genus PHILAGRAULA Hulst, 1896

91a0007 P. slossoniae Hulst, 1896 (Philagraula) 7654

Genus EROSIA Guenée, 1857

91a0008 E. incendiata Guenée, [1858] (Erosia) 7655

Genus SCHIDAX Hübner, 1818

91a0009 S. coronaria Strecker, 1899 (Schidax) 7656

Genus PHAZACA Walker, 1863
NOTE: The synonymy by Holloway (1998) has been overlooked in recent NA works.
BALANTIUCHA Turner, 1911
DIRADES Walker, 1866
DIRADOPSIS Warren, 1898
HOMOPLEXIS Warren, 1907
LOBOGETHES Warren, 1896

91a0010 P. infans (Warren, 1900) (Dirades) [NEW]
NOTE: Reported from FL by Heppner ([2007] 2003), in the genus *Dirades*.

Genus TROTORHOMBIA Warren, 1904

91a0011 T. metachromata (Walker, 1861) (Erosia) [NEW]
NOTE: Recently added USA record (TX) reported in the 2007 Season Summary of the Lepidopterists' Society (2008).
bisinuata (Felder & Rogenhofer, 1874) ([unknown])

Genus PSAMATHIA Walker, 1861
ID INFO: Ferguson (1986).
MICRONIODES Maassen, 1890

91a0012 P. placidaria (Walker, 1861) (Orudiza) [NEW]

Subfamily URANIINAE [Leach, 1815]

Genus URANIA [Fabricius, in: Illiger], 1807
CYDIMON Dalman, 1825
DASYCEPHALUS Swainson, 1833
LEILUS Walker, 1854
URANIDIA Westwood, 1879

91a0013 U. fulgens Walker, 1854 (Urania) STRAY 7658
cacica (Guenée, [1858]) (Cydimon)

87. Family SEMATURIDAE Guenée, 1858 (corkscrew moths)

by B. Christian Schmidt

The Sematuridae, or corkscrew moths, are large to very large moths, with wingspans of 40 to 100 mm. Adult sematurids have distinctive, finely striate wing patterns, and many species have spatulate hindwing tails with an eyespot at the base, not unlike swallowtail butterflies. The immature stages and larval host plants are poorly known; Dyer et al. (2021) provide information for an Andean species of *Homidiana* reared from a member of the Clusiaceae, and Cock (2016) cites the latter reference for *Mania luna* feeding on plants in the Fabaceae and Myrtaceae.

Historically treated as part of the Uraniidae or as a family within the Geometroidea, Sematuridae is now placed within the latter based on molecular phylogenetic work (Sihvonen et al. 2011; Heikkilä et al. 2015). The group is one of the smallest families of Macroheterocera, with about 40 species globally (van Nieukerken et al. 2011). All but one species are Neotropical, the exception being a South African taxon placed in a separate subfamily that putatively belongs to Sematuridae (Minet & Scoble 1999). A single species, which is rarely recorded in southeastern AZ (possibly as a stray from Mexico), has been documented from NA.

Subfamily SEMATURINAE Guenée, 1858

Genus ANURAPTERYX Hampson, 1918

91a0014 A. crenulata Barnes & Lindsey, 1919 (Anurapteryx)
7657

88. Family GEOMETRIDAE [Leach, 1815] (inchworm moths; geometer moths)

by B. Christian Schmidt and Hugh D. McGuinness

Geometrids are primarily medium-sized moths (average wingspan 30 to 45 mm), with slender bodies and broad, butterflylike wings. Exceptions, of course, abound, notably the pugs (*Eupithecia*; Larentiinae), which are not only among the smallest geometrids (some Sterrhinae are smaller), but also the largest geometrid genus in NA. Most NA geometrids have sexually dimorphic antennae, being pectinate or plumose in males versus simple in females (the historical convention of naming species with an epithet ending in "*-aria*" was applied to species with pectinate antennae). Although some adults are brightly or boldly colored, most exhibit subtle patterns of browns and grays, with transverse lines or bands across the upper surface of one or both pairs of wings, which ostensibly provides cryptic coloration on bark or in dead leaves. The subfamily Geometrinae is characterized by a unique green pigment, geoverdin, that results in the green color of adults.

The family is united by the unique structure of the abdominal tympanal organs and by larvae that have only two pairs of abdominal prolegs. An exception to the latter are the Archiearinae, which possess ventral prolegs on segments A3 to A6 and A10. The larvae are commonly called loopers or inchworms, in reference to their gait, in which the caterpillar moves by extending its anterior end, grasping the substrate, and then bringing up is posterior end. Larval biology varies, but the geometrids are most diverse in forested biomes, with larvae usually folivores on trees and shrubs. Larvae of many species are extraordinary twig mimics.

Recently, Murillo-Ramos et al. (2019) and Brehm et al. (2019) provided a comprehensive phylogeny constructed from 11 nuclear genes and one mitochondrial gene from over 1,200 geometrid species, that resulted in the transfer of many genera to arrive at a phylogeny in which all subfamilies are monophyletic. The order of subfamilies used here follows these recent findings, which have resulted in significant advances in our understanding of geometrid phylogeny.

The family Geometridae is one of the three largest lepidopteran families, encompassing almost 24,000 described species globally, with most diversity in the tropics. Scoble (1999) published a world catalog of Geometridae, which has been updated and made available online (Rajaei et al. 2022a). A total of 1,441 species occur in NA, in six subfamilies. Most Sterrhinae have not been revised at the family level recently, although the Canadian species were treated by McGuffin (1967). The Larentiinae is taxonomically the most poorly resolved of the geometrids, although a few genera have been revised in recent years; see references inserted in the list below. The larvae of some Larentiinae were treated by McGuffin (1958). The Archiearinae is a small group that has not been revised recently. Desmobathrinae is a poorly circumscribed subfamily that is most diverse in the tropics, represented in the NA fauna by a single species. The subfamily was reinstated by Holloway (1996) and was recently recovered as a well-supported monophyletic group (Murillo-Ramos et al. 2019). Ferguson (1985a) revised the NA Geometrinae. The Ennominae are the largest subfamily of geometrids, with an estimated 10,000 species globally (Pitkin 2002). They are relatively well known taxonomically in NA, with many revisions carried out by Frederick Rindge (e.g., Rindge 1949, 1966, 1968, 1975b, 1979). McGuffin (1972, 1977, 1981, 1987) diagnosed and illustrated the species occurring in Canada. The tribes Cassymini and Macariini were treated in a recent monograph by Ferguson (2008).

Subfamily STERRHINAE Meyrick, 1892

NOTE: Tribal phylogeny of Sihvonen et al. (2020) is followed here.

Tribe MECOCERATINI Guenée, [1858]

NOTE: Recently recognized tribe by Sihvonen et al. (2020).

Genus AMETRIS Hübner, 1822
ID INFO: Heppner (2013).
MECOCERAS Guenée, 1857

91a0015 A. nitocris (Cramer, [1780]) (Phalaena) 6259
albimacula (Thierry-Mieg, 1909) (Mecoceras)
bitactaria (Walker, 1861) (Mecoceras)
penisularia (Grote, 1883) (Mecoceras)
pudibunda (Thierry-Mieg, 1909) (Mecoceras)
schausaria (Edwards, 1884) (Mecoceras)

Genus ALMODES Guenée, 1857
POLYSEMIA Guenée, 1857

91a0016 A. terraria Guenée, [1858] (Almodes) 6260
assecoma (Druce, 1892) (Ergavia)
pedicellata (Hulst, 1898) (Cleora)
rivularia Grote, 1883 (Almodes)
squamigera (Felder, 1875) (Boarmia)
stellidaria (Guenée, [1858]) (Polysemia)

Tribe COSYMBIINI Prout, 1911

Genus PLEUROPRUCHA Möschler, 1890
APALLACTA Möschler, 1890
DEPTALIA Hulst, 1896

91a0017 P. insulsaria (Guenée, [1858]) (Acidalia) 7132
insularia; [various, no date] (Pleuroprucha) missp.
invariata (Walker, 1863) (Acidalia)
persimilata (Grote, 1863) (Acidalia)
placidaria (Guenée, [1858]) (Acidalia)

91a0018 P. asthenaria (Walker, 1861) (Acidalia) 7133
imparata (Walker, 1863) (Acidalia)

Genus CYCLOPHORA Hübner, 1822
CODONIA Hübner, 1823
COSYMBIA Hübner, 1823
EPHYRA Duponchel, 1829
EUEPHYRA Packard, 1873
LEUCOPHTHALMIA Hübner, 1823

MATELLA Gistel, 1848
ZONOSOMA Lederer, 1853

91a0019 C. culicaria (Guenée, [1858]) (Ephyra) 7134
91a0020 C. dataria (Hulst, 1887) (Acidalia) 7135
microps (Prout, 1936) (Cosymbia)
piazzaria (Wright, 1924) (Cosymbia)
91a0021 C. packardi (Prout, 1936) (Cosymbia) 7136
91a0022 C. myrtaria (Guenée, [1858]) (Ephyra) 7137
ignotaria (Walker, 1863) (Ephyra)
triseriata (Prout, 1936) (Tephrina)
91a0023 C. benjamini (Prout, 1936) (Cosymbia) 7138
91a0024 C. pendulinaria (Guenée, [1858]) (Ephyra) 7139
dilucidaria Rothke, 1920 (Cyclophora)
griseor (McDunnough, 1927) (Cosymbia)
lumenaria of authors; (not Geyer, 1832) (Cosymbia) misappl.
nigricaria Rothke, 1920 (Cyclophora)
quadriannulata (Walker, 1863) (Acidalia)
91a0025 nanaria (Walker, 1861) (Ephyra) 7140
nanularia (Herrich-Schäffer, 1870) (Zonosoma)
obscura (Druce, 1898) (Ephyra)
serrulata (Packard, 1873) (Euephyra)

Tribe TIMANDRINI Stephens, 1850

Genus HAEMATOPIS Hübner, 1823
ID INFO: McGuffin (1967).
HAEMATOPSIS; [various, no date] missp.

91a0026 H. grataria (Fabricius, 1798) (Phalaena) 7146
annettearia Haimbach, 1907 (Haematopis)
saniaria Hübner, 1823 (Haematopis)
successaria (Walker, 1860) (Rhodostrophia)

Genus TIMANDRA Duponchel, 1829
BRADYEPETES Stephens, 1831
CALOTHYSANIS Hübner, 1823

91a0027 T. amaturaria Walker, 1866 (Timandra) 7147
effusaria (Prout, 1936) (Calothysanis)

Tribe CYLLOPODINI Kirby, 1892

Genus SEMAEOPUS Herrich-Schäffer, 1855
CHAROMMATAEA Hulst, 1896
CNEMODES Guenée, [1858]
CYPHOPTERYX Guenée, [1858]
DASYCOSYMBIA Grossbeck, 1912
DICHROMATOPODIA Warren, 1895
DYSEPHYRA Warren, 1895
HETEREPHYRA Warren, 1895
ISSA Walker, 1867
LIGONIA Möschler, 1882
PARADMETA Warren, 1907
PARAZEUXIS Warren, 1907
SCHISTOCOLPIA Warren, 1906
XENOSTIGMA Warren, 1900

91a0028 S. ella (Hulst, 1896) (Charommataea) 7141
boweri (Sperry, 1940) (Dasycosymbia)
ellatina (Hulst, 1896) (Charommataea)
91a0029 S. gracilata (Grossbeck, 1912) (Dasycosymbia) 7142
91a0030 S. cantona (Schaus, 1901) (Cnemodes) 7143
91a0031 S. caecaria (Hübner, [1823]) (Codonia) 7144
distinctata (Warren, 1900) (Heterephyra)
fartaria (Guenée, [1858]) (Ephyra)
grisea (Warren, 1906) (Heterephyra)
occipitaria (Herrich-Schäffer, 1870) (Zonosoma)
punctata (Stoll, 1790) (Phalaena)
rubella (Warren, 1907) (Dichromatopodia)
91a0032 S. marginata (Schaus, 1901) (Charommataea) 7145

Tribe STERRHINI Meyrick, 1892

Genus ARCOBARA Walker, 1863
PIGIA Guenée, [1858]

91a0033 A. multilineata (Hulst, 1887) (Pigia) 7128
91a0034 A. perlineata (Schaus, 1913) (Ania) 7129
91a0035 A. cavana (Druce, 1892) (Acidalia) [NEW]
NOTE: Added to the NA fauna by Covell (2013), who also found *calotis* to be a junior synonym to *A. cavana*. Transferred from *Scopula* to *Arcobara* by Scoble (1999).
calotis (Dyar, 1912) (Pigia)

Genus EUMACRODES Warren, 1905
EUPTYCHOPODA Prout, 1910

91a0036 E. yponomeutaria (Guenée, [1858]) (Acidalia) 7086
semidecora (Walker, 1863) (Acidalia)

Genus EUACIDALIA Packard, 1873
OBELOPTERYX Warren, 1906

91a0037 E. sericearia Packard, 1873 (Euacidalia) 7087
albescens (Cassino, 1931) (Acidalia)
sericeata; [various, no date] (Euacidalia) missp.
91a0038 E. puerta Cassino, 1931 (Euacidalia) 7088
91a0039 E. quakerata Cassino, 1927 (Euacidalia) 7089
91a0040 E. brownsvillea Cassino, 1931 (Euacidalia) 7090
91a0041 E. nigridaria Cassino, 1931 (Euacidalia) 7091

Genus PROTOPROUTIA McDunnough, 1939

91a0042 P. rusticaria McDunnough, 1939 (Protoproutia) 7092
91a0043 P. laredoata (Cassino, 1931) (Acidalia) 7093

Genus LOBOCLETA Warren, 1906
METASIOPSIS Prout, 1910

91a0044 L. ossularia (Geyer, 1837) (Leptomeris) 7094
favillifera (Walker, 1866) (Acidalia)
magniferaria (Walker, 1861) (Acidalia)
ossulata; [various, no date] (Lobocleta) missp.
repletaria (Walker, 1866) (Acidalia)
sublataria (Guenée, [1858]) (Acidalia)
temnaria (Guenée, [1858]) (Acidalia)
91a0045 L. granitaria (Packard, 1871) (Acidalia) 7095
granitata; [various, no date] (Lobocleta) missp.
91a0046 L. quaesitata (Hulst, 1880) (Acidalia) 7096
chockolatella (Cassino, 1931) (Euacidalia)
ferruginata (Cassino, 1931) (Euacidalia)
91a0047 L. plemyraria (Guenée, [1858]) (Acidalia) 7097
balistaria (Guenée, [1858]) (Acidalia)
helena (Cassino, 1931) (Euacidalia)
moricaria Dyar, 1923 (Lobocleta)
perirrorata (Packard, 1873) (Acidalia)
rufescens (Hulst, 1896) (Eois)
91a0048 L. lanceolata (Hulst, 1896) (Eois) 7098
91a0049 L. griseata (Cassino, 1931) (Euacidalia) 7099
91a0050 L. peralbata (Packard, 1873) (Acidalia) 7100
longipennata (Packard, 1873) (Acidalia)

Genus IDAEA Treitschke, 1825
ID INFO (partial): McGuffin (1967), Covell (2015).
ANDRAGRUPOS Hampson, 1891
ANIA Stephens, 1831
ANTEOIS Warren, 1900
APHROGENEIA Gumppenberg, 1890
ARGIA Gumppenberg, 1890
ARGYROSCELIA Warren, 1907
ARRHOSTIA Hübner, 1825
BRACHYPROTA Warren, 1897
CACORISTA Warren, 1899
CARPHOXERA Riley, 1891
CYSTEOPHORA Hulst, 1900
DEINOPYGIA Warren, 1904
EUPHENOLIA Grossbeck, 1907
GNIDIA Gumppenberg, 1890
GONIACIDALIA Packard, 1873
HEMIPOGON Warren, 1897
HIRTHESTES Dognin, 1914
HYRIA Stephens, 1829

HYRIOGONA Warren, 1900
JANARDA Moore, 1888
LEPTACME Warren, 1897
LIMERIA Staudinger, 1892
LOBURA Warren, 1906
LOPHOPHLEPS Hampson, 1891
MNESTERODES Meyrick, 1889
NEOCHRYSA Warren, 1900
OMOPERA Warren, 1906
PAREUPITHEX Warren, 1907
PELAGIA Gumppenberg, 1890
POGONOGYA Warren, 1900
POLYGRAPHODES Warren, 1897
PROSPASTA Warren, 1900
PTENOPODA Hulst, 1896
PTYCHOPODA Curtis, 1826
PYCTIS Hübner, 1825
PYTHODORA Meyrick, 1888
SCHEMATORHAGES Warren, 1905
STERRHA Hübner, 1825
STROPHOPTILA Warren, 1897
SYNOMILA Hulst, 1896
THYSANOTRICHA Warren, 1903
XENOCENTRIS Meyrick, 1889

91a0051 I. minuta (Schaus, 1901) (Deptalia) 7101
91a0052 I. bonifata (Hulst, 1887) (Eois) 7102
delicata (Hulst, 1896) (Eois)
ptelearia (Riley, 1891) (Carphoxera)
91a0053 I. nibseata (Cassino, 1931) (Ptychopoda) 7103
91a0054 I. microphysa (Hulst, 1896) (Eois) 7104
91a0055 I. scintillularia (Hulst, 1888) (Eois) 7105
scintillaria; [various, no date] (Idaea) missp.
91a0056 I. insulensis (Rindge, 1958) (Sterrha) 7106
91a0057 I. pervertipennis (Hulst, [1901] 1900) (Cysteophora) 7107
91a0058 I. furciferata (Packard, 1873) (Goniacidalia) 7108
parvularia (Hulst, 1888) (Eois)
91a0059 I. celtima (Schaus, 1901) (Ptychopoda) 7109
91a0060 I. basinta (Schaus, 1901) (Eois) 7110
pallimedia (Grossbeck, 1908) (Euphenolia)
91a0061 I. skinnerata (Grossbeck, 1907) (Euphenolia) 7111
91a0062 I. knudsonaria Covell, 2015 (Idaea) [NEW]
91a0063 I. kendallaria Covell, 2015 (Idaea) [NEW]
91a0064 I. elizabetharia Covell, 2015 (Idaea) [NEW]
91a0065 I. productata (Packard, 1876) (Acidalia) 7112
australis (Hulst, 1896) (Eois)
subochreata (Hulst, 1887) (Eois)
91a0066 I. miranda (Hulst, 1896) (Ptenopoda) 7113
91a0067 I. demissaria (Hübner, [1831]) (Eois) 7114
ssp. a. demissaria (Hübner, [1831]) (Eois)
ferrugata (Packard, 1876) (Eois)
inclusaria (Walker, 1863) (Acidalia)
russata (Hulst, 1887) (Eois)
ssp. b. columbia (McDunnough, 1927) (Ptychopoda)
91a0068 I. eremiata (Hulst, 1887) (Eois) 7115
flavescens (Hulst, 1896) (Eois)
91a0069 I. gemmata (Packard, 1876) (Eois) 7116
91a0070 I. occidentaria (Packard, 1873) (Hyria) 7117
occidentata; [various, no date] (Idaea) missp.
91a0071 I. hilliata (Hulst, 1887) (Eois) 7118
91a0072 I. micropterata (Hulst, [1901] 1900) (Eois) 7119
91a0073 I. violacearia (Walker, 1861) (Acidalia) 7120
benubia (Cassino, 1931) (Euacidalia)
floridaria (Hulst, 1888) (Boarmia)
lacteola (Lintner, 1878) (Acidalia)
nimbicolor (Hulst, 1896) (Eois)
91a0074 I. ostentaria (Walker, 1861) (Acidalia) 7121
marceata (Cassino, 1931) (Acidalia)
91a0075 I. tacturata (Walker, 1861) (Acidalia) 7122
albidula (Hulst, 1896) (Cingilia)
91a0076 I. obfusaria (Walker, 1861) (Acidalia) 7123
pimacoata (Cassino, 1931) (Euacidalia)
punctofimbriata (Packard, 1873) (Acidalia)
91a0077 I. retractaria (Walker, 1861) (Acidalia) 7124
pallida (Hulst, 1896) (Eois)
91a0078 I. rotundopennata (Packard, 1876) (Acidalia) 7125
hanhami (Hulst, 1898) (Eois)
91a0079 I. dimidiata (Hufnagel, 1767) (Phalaena) H/I 7126
antiaurica (Wehrli, 1931) (Ptychopoda)
delictata (Prout, 1913) ([unknown])
roseata (Turati, 1913) (Acidalia)
scutata (Fabricius, 1787) (Phalaena)
scutularia (Hübner, 1798) (Geometra)
scutulata ([Denis & Schiffermüller], 1775) (Geometra)
tauricola (Wehrli, 1934) (Ptychopoda)
91a0080 I. asceta (Prout, 1902) (Ptychopoda) [NEW]
NOTE: Added to the NA fauna (TX) by Covell (2011).

Genus PAOTA Hulst, 1896

91a0081 P. fultaria (Grote, 1882) (Lythria) 7127

Genus ODONTOPTILA Warren, 1897

91a0082 O. obrimo (Druce, 1892) (Acidalia) 7130
albiserpentata (Pearsall, 1906) (Pigia)
siculodaria Schaus, 1901 (Odontoptila)

Genus PTYCHAMALIA Prout, 1932

91a0083 P. dorneraria (Barnes & McDunnough, 1913) (Scelolophia) 7131

Tribe HAEMALEINI Sihvonen & Brehm, 2020

Genus LEPTOSTALES Möschler, 1890
CALYPTOCOME Hulst, 1896
SCELOLOPHIA Hulst, 1896
WAUCHULA Hulst, 1900
XYSTROTA Möschler, 1890

91a0084 L. pannaria (Guenée, [1858]) (Acidalia) 7173
borrigaria (Warren, 1906) (Crypsityla)
formosa (Hulst, 1896) (Scelolophia)
purpurissata (Grote, 1871) (Acidalia)
tremularia (Walker, 1863) (Acidalia)
91a0085 L. crossii (Hulst, 1900) (Eois) 7174
crossi; [various, no date] (Leptostales) missp.
91a0086 L. hepaticaria (Guenée, [1858]) (Acidalia) 7175
purpurascens (Hulst, 1900) (Eois)
91a0087 L. rubrotincta (Hulst, [1901] 1900) (Wauchula) 7176
91a0088 L. laevitaria (Geyer, 1837) (Eois) 7177
floridata (Packard, 1873) (Euacidalia)
91a0089 L. oblinataria Möschler, 1890 (Leptostales) 7178
scintillans Warren, 1904 (Leptostales)
91a0090 L. rubromarginaria (Packard, 1871) (Acidalia) 7179
erythrata (Hulst, 1880) (Cidaria)
rubromarginata; [various, no date] (Leptostales) missp.
volucrata (Hulst, 1887) (Acidalia)
91a0091 L. ferruminaria (Zeller, 1872) (Acidalia) 7180

Genus LOPHOSIS Hulst, 1896

91a0092 L. labeculata (Hulst, 1887) (Eois) 7181
roseotincta (Hulst, 1896) (Leptomeris)

Tribe SCOPULINI Duponchel, 1845

Genus ACRATODES Guenée, 1857

91a0093 A. suavata (Hulst, [1901] 1900) (Eois) 7148
davisi (Grossbeck, 1917) (Eois)
fusaria (Hampson, 1903) (Somatina)
roseicosta (Barnes & McDunnough, 1913) (Xystrota)

Genus SCOPULA Schrank, 1802
ID INFO: Covell (1970).
ACIDALINA Staudinger, 1898
CHLOROCRASPEDIA Warren, 1899
CRASPEDIA Hübner, 1825
CYMATIDA Sodoffsky, 1837
CYMATOIDES Agassiz, 1847
DOSITHEA Duponchel, 1829
HOLARCTIAS Prout, 1913
INDUNA Warren, 1897
LEPTOMERIS Hübner, 1825
LIPOCENTRIS Warren, 1908

LONGULA Staudinger, 1892
LYCAUGES Butler, 1879
PHYLETIS Guenée, [1858]
PLEIONOCENTRA Warren, 1898
PSILEPHYRA Basterberger, 1909
PYLARGE Herrich-Schäffer, 1855
RUNECA Moore, 1888
SYNELYS Hulst, 1896
TRICHOCLADA Meyrick, 1886

91a0094 S. lautaria (Hübner, 1831) (Craspedia) 7149
minutularia (Hulst, 1880) (Acidalia)
myrmidonata (Guenée, [1858]) (Acidalia)

91a0095 S. eburneata (Guenée, [1858]) (Acidalia) 7150
blandula (Warren, 1906) (Emmiltis)
chionaeata (Herrich-Schäffer, 1870) (Acidalia)
subsignaria (Walker, 1861) (Acidalia)

91a0096 S. aemulata (Hulst, 1896) (Leptomeris) 7151
tawneata (Cassino, 1931) (Acidalia)

91a0097 S. compensata (Walker, 1861) (Acidalia) 7152
obluridata (Hulst, 1887) (Acidalia)

91a0098 S. apparitaria (Walker, 1861) (Acidalia) 7153
approbata (Warren, 1900) (Craspedia)
atomaria (Warren, 1897) (Craspedia)
responsaria (Walker, 1861) (Acidalia)
tincta (Warren, 1904) (Craspedia)
trias (Warren, 1904) (Craspedia)

91a0099 S. plantagenaria (Hulst, 1887) (Ephyra) 7154
canthema (Schaus, 1901) (Ptychopoda)
hieronyma Prout, 1922 (Scopula)

91a0100 S. benitaria (Barnes & McDunnough, 1913) (Leptomeris) 7155

91a0101 S. umbilicata (Fabricius, 1794) (Phalaena) 7156
crenatilinea (Warren, 1901) (Craspedia)
cugia (Schaus, 1901) (Craspedia)
indoctaria (Walker, 1861) (Acidalia)
nigroapicata (Thierry-Mieg, 1892) (Acidalia)
peruviana Prout, 1922 (Scopula)

91a0102 S. cacuminaria (Morrison, 1874) (Acidalia) 7157

91a0103 S. purata (Guenée, [1858]) (Acidalia) 7158
nigrocandida (Hulst, 1898) (Synelys)

91a0104 S. limboundata (Haworth, 1809) (Phalaena) 7159
adornata (Prout, 1907) (Synelys)
continuaria (Walker, 1866) (Acidalia)
enucleata (Guenée, [1858]) (Acidalia)
mensurata (Walker, 1866) (Acidalia)
nigrodiscalis (Hulst, 1898) (Leptomeris)
reconditaria (Walker, 1861) (Acidalia)
relevata (Swett, 1907) (Synelys)
restricata (Walker, 1861) (Acidalia)

91a0105 S. timandrata (Walker, 1861) (Acidalia) 7160
rufilinearia (Walker, 1861) (Acidalia)

91a0106 S. ordinata (Walker, 1861) (Acidalia) 7161
candidaria (Packard, 1873) (Acidalia)
puraria (Walker, 1861) (Acidalia)

91a0107 S. ancellata (Hulst, 1887) (Acidalia) 7162

91a0108 S. fuscata (Hulst, 1887) (Acidalia) 7163

91a0109 S. junctaria (Walker, 1861) (Acidalia) 7164
ssp. a. junctaria (Walker, 1861) (Acidalia)
ssp. b. johnstonaria McDunnough, 1941 (Scopula)
johnsonaria McDunnough, 1941 (Scopula)

91a0110 S. quinquelinearia (Packard, 1871) (Acidalia) [NEW]
NOTE: Elevated from synonymy with *S. junctaria* by Schmidt & Anweiler (in Pohl et al. 2010; Appendix) on the basis of sympatry in southern AB and consistent DNA differences of about 1.5%.
impunctata (Warren, 1904) (Synelys)
vestalialis (Barnes & McDunnough, 1913) (Synelys)

91a0111 S. quadrilineata (Packard, 1876) (Acidalia) 7165
persimilis (Hulst, 1898) (Eois)
quadrilinearia; (Hulst, 1896) (Eois) missp.

91a0112 S. frigidaria (Möschler, 1860) (Acidalia) 7166
arcticaria (Walker, 1863) (Acidalia)
defixaria (Walker, 1861) (Acidalia)
impauperata (Walker, 1861) (Acidalia)
okakaria (Packard, 1867) (Acidalia)

91a0113 S. siccata McDunnough, 1939 (Scopula) 7167

91a0114 S. cajanderi (Herz, 1903) (Acidalia) H [NEW]
NOTE: The taxon *septentrionicola* was found to be a junior synonym of *S. cajanderi* by Sihoven (2001).
anaitaria (Herz, 1904) (Acidalia)
septentrionicola McDunnough, 1939 (Scopula) [7168]

91a0115 S. inductata (Guenée, [1858]) (Acidalia) 7169
anticaria (Walker, 1860) (Acidalia)
consecutaria (Walker, 1866) (Acidalia)
delicata (Cassino, 1931) (Acidalia)
oliveata (Cassino, 1931) (Acidalia)
sobria (Walker, 1866) (Acidalia)
suppressaria (Walker, 1862) (Acidalia)

91a0116 S. luteolata (Hulst, 1880) (Cidaria) 7170
subfuscata (Taylor, 1906) (Leptomeris)

91a0117 S. sideraria (Guenée, [1858]) (Acidalia) 7171
bucephalaria (Barnes & McDunnough, 1918) (Acidalia)
californiaria (Packard, 1871) (Acidalia)
chretieni (Barnes & Benjamin, 1923) (Acidalia)
magnetaria (Guenée, [1858]) (Acidalia)
pacificaria (Packard, 1871) (Acidalia)
rubrolinearia (Packard, 1873) (Acidalia)

91a0118 S. sentinaria (Geyer, 1837) (Haematopis) 7172
gracilior (Butler, 1893) (Thamnonoma)
spuriaria (Christoph, 1858) (Aspilates)

Subfamily LARENTIINAE Duponchel, [1845]

NOTE: Tribal classification follows Brehm et al. (2019).

Tribe DYSPTERIDINI Hulst, 1896

NOTE: Tribe revived from synonymy by Viidalepp (2011), a result supported by two recent molecular phylogenies (Murillo-Ramos et al. 2019; Brehm et al. 2019). The Dyspteridini is the sister group to all other Larentiines.

Genus HETEROPHLEPS Herrich-Schäffer, [1854]
NANNIA Hulst, 1896

91a0119 H. refusaria (Walker, 1861) (Macaria) 7645
harveiata Packard, 1876 (Heterophleps)
refusata; [various, no date] (Heterophleps) missp.

91a0120 H. triguttaria Herrich-Schäffer, [1854] (Heterophleps) 7647
hexaspilata (Walker, 1866) (Corycia)
morensata (Hulst, 1896) (Nannia) N. SYN. [7646]
NOTE: The female holotype (in the AMNH; examined by BCS) of this taxon, described from WI, is a dusky form of *H. triguttata* and is hereby placed into synonymy under that species (n. syn.).
quadrinotata (Walker, 1863) (Stegania)

Genus KNUDSONIA Matson & Ferguson, 2021
ID INFO: Matson & Ferguson (2021).

91a0121 K. lathraeata Matson & Ferguson, 2021 (Knudsonia) [NEW]

Genus DYSPTERIS Hübner, 1818

91a0122 D. abortivaria (Herrich-Schäffer, [1855]) (Geometra) 7648

Tribe TRICHOPTERYGINI Warren, 1894

Genus ACASIS Duponchel, 1844
AGIA Hulst, 1896
CYSTEOPTERYX Hulst, 1896

91a0123 A. viridata (Packard, 1873) (Lobophora) 7635
eborata (Hulst, 1896) (Agia)

Genus TRICHOPTERYX Hübner, 1825
NOTHOPTERYX Prout, 1909

91a0124 T. veritata Pearsall, 1907 (Trichopteryx) 7636
februalis (Dyar, 1923) (Acasis)

Genus CLADARA Hulst, 1896
NYCTOBIA Hulst, 1896

91a0125 C. limitaria (Walker, 1860) (Cleora) 7637
ssp. a. limitaria (Walker, 1860) (Cleora)
anguilineata (Grote & Robinson, 1867) (Lobophora)
N. SYN. [7638]
NOTE: The DNA variation and genitalic morphology of *anguilineata* is indistinguishable from that of *C. limitaria*. Thus, *anguilineata* is here considered a color form and junior synonym (n. syn.). Its synonyms *eastmani* Reiff and *vernata* Packard are also hereby transferred to synonymy with *C. limitaria* (rev. syn.).

eastmani (Reiff, 1913) (Nyctobia) REV. SYN.
fusifasciata (Walker, 1862) (Lobophora)
lobophorata (Walker, 1862) (Scotosia)
longipennis (Walker, 1866) (Larentia)
reiffi (Swett, 1910) (Nyctobia)
vernata (Packard, 1873) (Eupithecia) (in part); REV. SYN.

NOTE: Scoble (1999) listed this taxon as a synonym "in part" of *C. anguilineata* and *C. atroliturata*, apparently based on syntypes that refer to both taxa. The *anguilineata* synonym is moved to *C. limitaria* in the current list (rev. syn.). We list *vernata* here and under *C. atroliturata* pending designation of a neotype.

ssp. b. nigroangulata (Strecker, 1899) (Lobophora)

91a0126 C. atroliturata (Walker, [1863]) (Lobophora) 7639
geminata (Grote & Robinson, 1866) (Larentia)
vernata (Packard, 1873) (Eupithecia) (in part)

NOTE: See note under *C. limitaria*.

Genus LOBOPHORA Curtis, 1825
PHILOPSIA Hulst, 1896
TALLEDEGA Hulst, 1896

91a0127 L. nivigerata Walker, 1862 (Lobophora) 7640

NOTE: In addition to *L. nivigerata*, five other *Lobophora* taxa have been described from different regions of NA: *montanata* (TL: CO), *simsata* (TL: Victoria, BC), *magnoliatoidata* (TL: Kootenai [sic] district, BC), *canavestita* (TL: Doble, CA), and *tabulata* (TL: Alert Island, AK), and have at times been recognized as distinct species (most recently as a subspecies in the case of *tabulata*). Although the modal phenotype does differ among geographic regions, multiple phenotypes matching different taxa are often present at a single location. In addition, neither DNA barcodes nor genitalic morphology are diagnostic for the taxa previously recognized as species, and *montanata*, *simsata*, *magnoliatoidata*, and *canavestita* are hereby placed into synonymy under a single species, *L. nivigerata* (n. syn.), along with *nocticolata* (rev. syn.), which was previously synonymized with *montanata*.

canavestita (Pearsall, 1906) (Philopsia) N. SYN. [7644]
magnoliatoidata (Dyar, 1904) (Talledega) N. SYN. [7643]
montanata Packard, 1874 (Lobophora) N. SYN. [7641]
nocticolata (Hulst, 1881) (Cidaria) REV. SYN.
simsata Swett, 1920 (Lobophora) N. SYN. [7642]
tabulata (Hulst, 1896) (Talledega)

Tribe CHESIADINI Stephens, 1850

Genus APLOCERA Stephens, 1827

NOTE: Transferred from Trichopterygini to Chesiadini by Brehm et al. (2019) following the findings of Viidalepp (2011).

ANAITIS Duponchel, 1829
LARISSA Curtis, 1830

91a0128 A. plagiata (Linnaeus, 1758) (Phalaena) I 7627

NOTE: Introduced from Europe in 1967 to control St. John's Wort (*Hypericum perforatum* L.; Hypericaceae); it failed to establish initially but was re-released in the 1970s and 1990s (De Clerck-Floate & Carcamo 2011).

ssp. a. plagiata (Linnaeus, 1758) (Phalaena)
duplicata (Fabricius, 1775) (Phalaena)
triplicata (Fourcroy, 1785) (Phalaena)

Genus CARSIA Hübner, 1825

NOTE: This genus is related to *Aplocera* and was transferred accordingly from Trichopterygini to Chesiadini (Hausmann & Viidalepp 2012).

CELMA Stephens, 1831

91a0129 C. sororiata (Hübner, [1813]) (Geometra) extralim. H 7626
paludata (Thunberg, 1788) (Phalaena) (excl.); preocc.

NOTE: This Palaearctic synonym (a junior homonym of *Phalaena (Geometra) paludata* Linnaeus, 1767) was used by Forbes (1948) and was widely adopted elsewhere.

ssp. a. alpinata Packard, 1873 (Carsia)
boreata Packard, 1873 (Carsia)
ssp. b. labradoriensis (Sommer, 1898) (Anaitis)
ssp. c. thaxteri Swett, 1917 (Carsia)
ssp. d. columbiata McDunnough, 1939 (Carsia)
columbia; Ferguson, 1983 (Carsia) missp.

Tribe EUDULINI Warren, 1897

Genus EUBAPHE Hübner, 1823

ID INFO: Fletcher (1954).

AMERIA Walker, 1854
EUPHANESSA Packard, 1864
LEPTIDULE Butler, 1877

91a0130 E. mendica (Walker, 1854) (Nudaria) 7440
biseriata (Herrich-Schäffer, 1855) (Eudule)

91a0131 E. meridiana (Slosson, 1889) (Euphanessa) 7441
91a0132 E. helveta (Barnes, 1907) (Eudela [sic]) 7442
91a0133 E. medea (Druce, 1885) (Leptidule) [NEW]

NOTE: Reported as new to NA by Ferguson (1986).

91a0134 E. rotundata (Cassino & Swett, 1922) (Eudule) 7443
91a0135 E. unicolor (Robinson, 1869) (Eudule) 7444
hyalina (Hulst, 1898) (Eudule)

Tribe ASTHENINI Warren, 1894

Genus HYDRELIA Hübner, 1825

91a0136 H. lucata (Guenée, [1858]) (Asthena) 7419
91a0137 H. condensata (Walker, 1862) (Melanthia) 7420
91a0138 H. inornata (Hulst, 1896) (Tephroclystis) 7422
exhumata (Pearsall, 1906) (Euchoeca)
91a0139 H. albifera (Walker, 1866) (Acidalia) 7423
albogilvaria (Morrison, 1874) (Acidalia)
triseriata (Packard, 1874) (Corycia)
91a0140 H. brunneifasciata (Packard, 1876) (Asthena) 7424

Genus NOMENIA Pearsall, 1905

NOTE: This genus was raised from synonymy with *Venusia* by Xue & Scoble (2002), but that was missed in several subsequent works. It was brought to our attention by Seabrooke Leckie. The status of *N. obsoleta* and the subspecies and synonym of *N. duodecemlineata* are uncertain; further taxonomic work is required on this group.

91a0141 N. duodecemlineata (Packard, 1873) (Larentia) 7426
ssp. a. duodecemlineata (Packard, 1873) (Larentia)
unipecta Pearsall, 1906 (Nomenia)
ssp. b. secunda Pearsall, 1906 (Nomenia)
91a0142 N. obsoleta Swett, 1916 (Nomenia) 7427

Genus VENUSIA Curtis, 1839

NOTE: Confusion between species of *Venusia* and with species now placed in *Nomenia* have led to misidentifications over the past century. Also, DNA barcode data supports at least one additional species. Further taxonomic work is required on this group.

91a0143 V. cambrica Curtis, 1839 (Venusia) H 7425
ssp. a. cambrica Curtis, 1839 (Venusia)
erutaria (Boisduval, 1840) (Hydrelia)
nebulosaria (Freyer, 1852) (Cidaria)
scitularia (Walker, 1860) (Tephrosia)
shuotsu Bryk, 1949 (Venusia)
terraenovae (Krogerus, 1954) (Hydrelia) N. SYN. [7421]

NOTE: The holotype of *Hydrelia terraenovae* (CNC) examined by BCS is a misidentified specimen of *Venusia cambrica*. *Hydrelia terranovae* is thus placed into synonymy under *V. cambrica* (n. syn.).

91a0144 V. comptaria (Walker, 1860) (Tephrosia) 7428
palumbes Franclemont, 1938 (Venusia)
perlineata (Packard, 1874) (Larentia)
salienta (Pearsall, 1905) (Euchoeca)
91a0145 V. pearsalli (Dyar, 1906) (Euchoeca) 7429

Genus EOIS Hübner, 1818

NOTE: Nielsen et al. (1996) placed *Eois* in the Asthenini (Larentiinae), a result that was supported by molecular data (Sihvonen et al. 2011).

AMAURINIA Guenée, [1858]
AMPHIBATODES Warren, 1895
ANTHYRIA Swinhoe, 1892
BARDANES Moore, 1888
CAMBOGIA Guenée, [1858]
CRETHEIS Meyrick, 1886
PHRUDOPLAGA Warren, 1894
PRASINOSCIA Warren, 1905
PSEUDASTHENA Moore, [1887] 1884
PSILOCAMBOGIA Hampson, 1893

91a0146 E. tegularia (Guenée, [1858]) (Cambogia) [NEW]

NOTE: Added to the NA fauna (TX) by the Texas Lepidoptera Survey (Knudson & Bordelon 2004), based on a specimen in the MGCL and illustrated on MPG.

lurida (Felder & Rogenhofer, 1875) (Cambogia)

Genus MINOA Treitschke, 1825 (excl.)

91a0147E M. murinata (Scopoli, 1763) (Phalaena) EXCL. [NEW]

NOTE: Introduced into Canada in 1988 as a biocontrol agent to combat Leafy Spurge (*Euphorbia esula* L.; Euphorbiaceae). It apparently never established in NA (Winston et al. 2014). It is not known which of several European subspecies the introduced populations were derived from.

Tribe PERIZOMINI Herbulot, 1961

NOTE: Tribe as described by Mironov (2000, 2003). In NA, only the introduced species *P. alchemillata* belongs in this tribe and all others have been removed following Õunap et al. (2019).

Genus PERIZOMA Hübner, 1825

ID INFO: Morris & Bolte (1977).

EMMELESIA Stephens, 1831

91a0148 P. alchemillata (Linnaeus, 1758) (Phalaena) I 7320
NOTE: Introduced from Europe to NL (Morris & Bolte 1977).
ssp. a. alchemillata (Linnaeus, 1758) (Phalaena)
alchemillaria; (Borkhausen, 1794) (Phalaena) emend.
nassata (Fabricius, 1787) (Phalaena)
rivulata ([Denis & Schiffermüller], 1775) (Geometra)
silenata (Stephens, 1850) (Emmelesia)

Tribe MELANTHIINI Duponchel, 1845

Genus MARTANIA Mironov, 2000

NOTE: *Martania* is the sister group to the rest of the Melanthiini (Õunap, pers. comm.), and so appears first in the taxonomic order.

91a0149 M. basaliata (Walker, 1862) (Larentia) 7316
NOTE: Transferred from *Perizoma* to *Martania* by Õunap et al. (2019).
explagiata (Walker, 1863) (Cidaria)
taeniata of authors; (not Stephens, 1831) (Emmelesia) misappl.

91a0150 M. grandis (Hulst, 1896) (Eucymatoge) N. COMB. 7317
NOTE: The NA taxa *grandis* and *alaskae* are closely related to *M. basaliata* and are here removed from *Perizoma* and also placed in *Martania* (n. comb.) in the tribe Melanthiini.
saanichata (Swett, 1915) (Hydriomena) emend.
saawichata; (Swett, 1915) (Hydriomena) orig. missp.

91a0151 M. alaskae (Hulst, 1896) (Coenocalpe) N. COMB. 7318
NOTE: See note under *M. grandis*.

Genus HORISME Hübner, 1825

NOTE: Pierce (1914) included *Horisme* in Melanthini, a result that was supported by Viidalepp (2011). Brehm et al. (2019) state that the assignment of NA members of the genus to this tribe needs to be confirmed in future phylogenetic studies.

91a0152 H. intestinata (Guenée, [1858]) (Phibalapteryx) 7445
impleta (Walker, 1866) (Phibalapteryx)
indoctrinata (Walker, 1863) (Phibalapteryx)

91a0153 H. incana Swett, 1918 (Horisme) 7446
ssp. a. incana Swett, 1918 (Horisme)
vitalbata of authors; (not [Denis & Schiffermüller], 1775) (Geometra) misappl.
ssp. b. columbia McDunnough, 1927 (Horisme)

91a0154 H. rectilineata (Taylor, 1907) (Eucymatoge) 7447

91a0155 H. gillettei (Hulst, 1898) (Eucymatoge) 7448

Tribe EUPITHECIINI Tutt, 1896

Genus EUPITHECIA Curtis, 1825

ID INFO: McDunnough (1949b), Bolte (1990), Ferris (2018, 2022); also Blanchard & Knudson (1985e), Rindge (1985), Ferris (2004, 2007a), Ferris & Opler (2008).
NOTE: Extensive synonymization since Ferguson (in Hodges et al. 1983), by Bolte (1990).
ARCYONIA Hübner, 1825
BOHATSCHIA Schütze, 1960
DIETZEA Schütze, 1956
DYSCYMATOGE Hübner, 1825
EUCYMATOGE Hübner, 1825
HYPEPIRRITIS Hübner, 1825
LEUCOCORA Hübner, 1825
NASUSINA Pearsall, 1908 N. SYN.
NOTE: As discussed by Barnes & McDunnough (1918b) and McDunnough (1949b), there are no unique morphological characters that unite all species within *Nausina* or within *Prorella*. They are distinguished from *Eupithecia* primarily on the presence of a rounded, bulging frons in *Nasusina*, and a projecting or pointed frons in *Prorella* (but absent in at least one species). Structurally similar modifications of the frons are found across a wide range of desert-dwelling Lepidoptera (e.g., Pyralidae, Noctuidae), and it is thought that this is an adaptation that aids in pupal emergence from hardened soil or plant substrates. When all other characters, including genitalic and external morphology and DNA barcode variation are considered, the species of *Prorella* and *Nasusina* (endemic to NA) fall squarely within *Eupithecia*, as McDunnough (1949b) suspected. Both genera are therefore placed into synonymy under *Eupithecia* (n. syn.).
PETERSENIA Schütze, 1958
PRORELLA Barnes & McDunnough, 1918 N. SYN.
NOTE: See note for *Nasusina*.
TARACHIA Hübner, 1825
TEPHROCLYSTIA Hübner, 1825

91a0156 E. palpata Packard, 1873 (Eupithecia) 7449
transcanadata MacKay, 1951 (Eupithecia) *[7450]*

91a0157 E. slossonata McDunnough, 1949 (Eupithecia) 7451

91a0158 E. albimontanata McDunnough, 1940 (Eupithecia) 7452

91a0159 E. peckorum Heitzman & Enns, 1977 (Eupithecia) 7453

91a0160 E. longidens (Hulst, 1896) (Tephroclystis) 7454
ssp. a. longidens (Hulst, 1896) (Tephroclystis)
ssp. b. kerrvillaria Cassino & Swett, 1924 (Eupithecia)

91a0161 E. ornata (Hulst, 1896) (Tephroclystis) 7455
exornata Barnes & McDunnough, 1912 (Eupithecia)

91a0162 E. monacheata [Cassino & Swett], 1922 (Eupithecia) 7456
carolata McDunnough, 1944 (Eupithecia)

91a0163 E. terrestrata McDunnough, 1944 (Eupithecia) 7457

91a0164 E. karenae Leuschner, 1966 (Eupithecia) 7458

91a0165 E. columbiata (Dyar, 1904) (Tephroclystis) 7459
erpata Pearsall, 1908 (Eupithecia)
holbergata (MacKay, 1951) (Tephroclystis)

91a0166 E. maestosa (Hulst, 1896) (Tephroclystis) 7460
dyarata Taylor, 1906 (Eupithecia)
harlequinaria (Dyar, 1905) (Tephroclystia)

91a0167 E. matheri Rindge, 1985 (Eupithecia) [NEW]
NOTE: Prior to its description, this eastern NA species was widely reported (including by Covell 1984) under the name *E. herefordaria*, a southwestern NA species.

91a0168 E. subvirens Dietze, 1875 (Eupithecia) 7461
diegata McDunnough, 1940 (Eupithecia)
laisata Strecker, 1899 (Eupithecia)

91a0169 E. castellata McDunnough, 1944 (Eupithecia) 7462

91a0170 E. chiricahuata McDunnough, 1944 (Eupithecia) 7463

91a0171 E. insolabilis (Hulst, [1901] 1900) (Tephroclystis) 7464

91a0172 E. pusillata ([Denis & Schiffermüller], 1775) (Geometra) H 7551
NOTE: Added to the continental NA fauna by deWaard et al. (2010). The species was previously known from GR. Ferguson (in Hodges et al. 1983) had overlooked the GR record and listed the species as "extralimital", based on *E. interruptofasciata*, then considered a subspecies.
ssp. a. pusillata ([Denis & Schiffermüller], 1775) (Geometra)
anglicata Herrich-Schäffer, 1863 (Eupithecia)
expressaria Herrich-Schäffer, 1848 (Eupithecia)
latoniata Millière, 1882 (Eupithecia)
scotica Dietze, 1910 (Eupithecia)
sobrinaria Boisduval, 1840 (Eupithecia)
stevensata Webb, 1896 (Eupithecia)

91a0173 ssp. interruptofasciata Packard, 1873 (Eupithecia) [NEW]
NOTE: The NA populations, previously treated as a subspecies of the Old World *E. pusillata* or its synonym *sobrinata*, were accorded full species status by Bolte (1990).
quebecata Taylor, 1910 (Eupithecia)
sobrinata of authors; (not Hübner, [1817]) (Geometra) misappl.

91a0174 E. catalinata McDunnough, 1944 (Eupithecia) 7465

91a0175 E. edna (Hulst, 1896) (Tephroclystis) 7466

91a0176 E. owenata McDunnough, 1944 (Eupithecia) 7467

91a0177 E. longipalpata Packard, 1876 (Eupithecia) 7468

91a0178 E. sabulosata McDunnough, 1944 (Eupithecia) 7469

91a0179 E. macrocarpata McDunnough, 1944 (Eupithecia) 7470

91a0180 E. placidata Taylor, 1908 (Eupithecia) 7471

91a0181 E. unicolor (Hulst, 1896) (Tephroclystis) 7472
cenataria Cassino & Swett, 1922 (Eupithecia)

91a0182 E. vicksburgi Rindge, 1985 (Eupithecia) [NEW]

91a0183 E. pseudotsugata MacKay, 1951 (Eupithecia) 7473

91a0184 E. miserulata Grote, 1863 (Eupithecia) 7474
ssp. a. miserulata Grote, 1863 (Eupithecia)
grossbeckiata Swett, 1907 (Eupithecia)
nebulosa (Hulst, 1896) (Tephroclystis)
plumbaria (Hulst, 1900) (Tephroclystis)
ssp. b. zela Swett & Cassino, 1919 (Eupithecia)

91a0185 E. chlorofasciata Dietze, 1872 (Eupithecia) ident. uncert. 7475
NOTE: The status of this taxon is uncertain. Unfortunately the type has been destroyed. It may be conspecific with *E. miserulata*, but remains as a valid species pending designation of a neotype.

91a0186 E. misturata (Hulst, 1896) (Tephroclystis) 7476
ssp. a. misturata (Hulst, 1896) (Tephroclystis)
conformata Pearsall, 1908 (Eupithecia)
frostiata Swett, 1907 (Eupithecia)
harveyata Taylor, 1906 (Eupithecia) *[7477]*
insignificata Taylor, 1906 (Eupithecia)

minorata Taylor, 1907 (Eupithecia)
scelestata Taylor, 1907 (Eupithecia)
silenata of authors; not Assman, 1848 (Eupithecia) misappl.
subfoveata (Dyar, 1904) (Tephroclystis)
sublineata Taylor, 1906 (Eupithecia)
ssp. b. delzurata [Cassino & Swett], 1922 (Eupithecia)
91a0187 E. bivittata (Hulst, 1896) (Tephroclystis) 7478
91a0188 E. pygmaeata (Hübner, [1799]) (Geometra) extralim. H 7479
ssp. a. obumbrata Taylor, 1906 (Eupithecia)
fortunata Pearsall, 1909 (Eupithecia)
91a0189 E. bryanti Taylor, 1906 (Eupithecia) 7480
modesta Taylor, 1906 (Eupithecia)
91a0190 E. coloradensis (Hulst, 1896) (Tephroclystis) 7481
carolinensis Grossbeck, 1907 (Eupithecia)
spenceata Cassino, 1927 (Eupithecia)
91a0191 E. cretata (Hulst, 1896) (Tephroclystis) 7482
91a0192 E. regina Taylor, 1906 (Eupithecia) 7483
91a0193 E. borealis (Hulst, 1898) (Tephroclystis) 7485
91a0194 E. jejunata McDunnough, 1949 (Eupithecia) 7486
91a0195 E. subfuscata (Haworth, 1809) (Phalaena) H/I 7487
ssp. a. subfuscata (Haworth, 1809) (Phalaena)
blancheata Cooke, 1881 (Eupithecia)
castigaria Boisduval, 1840 (Eupithecia)
castigata (Hübner, 1813) (Geometra)
compressata Guenée, [1858] (Eupithecia)
implicata Walker, 1862 (Eupithecia)
latipennis (Hulst, 1898) (Tephroclystis)
91a0196 E. tripunctaria Herrich-Schäffer, 1852 (Eupithecia) H/I 7488
albipunctata (Haworth, 1809) (Phalaena)
91a0197 E. harrisonata MacKay, 1951 (Eupithecia) 7490
91a0198 E. fletcherata Taylor, 1907 (Eupithecia) 7491
dolorosata Pearsall, 1910 (Eupithecia)
promulgata Pearsall, 1909 (Eupithecia)
91a0199 E. fredericki Knudson, 1985 (Eupithecia) [NEW]
91a0200 E. casloata (Dyar, 1904) (Tephroclystis) 7492
bradorata McDunnough, 1930 (Eupithecia) [7493]
kasloata; McDunnough, 1929 (Eupithecia) emend.
91a0201 E. sheppardata McDunnough, 1938 (Eupithecia) 7494
91a0202 E. affinata Pearsall, 1908 (Eupithecia) 7495
91a0203 E. rotundopuncta Packard, 1871 (Eupithecia) 7496
californiata Gumppenberg, 1888 (Eupithecia)
91a0204 E. sierrae (Hulst, 1896) (Tephroclystis) 7497
conceptata Pearsall, 1909 (Eupithecia)
joymaketa Cassino, 1925 (Eupithecia)
91a0205 E. litoris McDunnough, 1946 (Eupithecia) 7498
91a0206 E. quakerata Pearsall, 1909 (Eupithecia) 7499
apacheata Cassino, 1927 (Eupithecia)
conglomerata McDunnough, 1946 (Eupithecia)
91a0207 E. bolterii (Hulst, 1900) (Tephroclystis) 7500
91a0208 E. palmata [Cassino & Swett], 1922 (Eupithecia) 7501
91a0209 E. piccata Pearsall, 1910 (Eupithecia) 7502
91a0210 E. pretansata Grossbeck, 1908 (Eupithecia) 7503
91a0211 E. neomexicana McDunnough, 1946 (Eupithecia) 7504
91a0212 E. alpinata Cassino, 1927 (Eupithecia) 7505
91a0213 E. prostrata McDunnough, 1938 (Eupithecia) 7506
91a0214 E. persimulata McDunnough, 1938 (Eupithecia) 7507
91a0215 E. vargoi Ferris, 2022 (Eupithecia) [NEW]
91a0216 E. exudata Pearsall, 1909 (Eupithecia) 7508
91a0217 E. herefordaria Cassino & Swett, 1923 (Eupithecia) emend. 7509
herfordaria; Cassino & Swett, 1923 (Eupithecia) orig. missp.
91a0218 E. cazieri Kirkwood, 1961 (Eupithecia) 7510
91a0219 E. macdunnoughi Rindge, 1952 (Eupithecia) 7512
suspiciosata of authors; not Deitze, 1875 (Eupithecia) misappl.
91a0220 E. nabokovi McDunnough, 1946 (Eupithecia) 7513
91a0221 E. biedermanata [Cassino & Swett], 1922 (Eupithecia) 7514
miamata Cassino, 1925 (Eupithecia) [7582]
91a0222 E. cupressata Pearsall, 1910 (Eupithecia) 7515
91a0223 E. albigrisata Pearsall, 1909 (Eupithecia) 7516
91a0224 E. intricata (Zetterstedt, 1839) (Larentia) extralim. H 7518
helveticaria Boisduval, 1840 (Eupithecia) (excl.)
ssp. a. taylorata Swett, 1907 (Eupithecia)
arceuthata of authors; (not Freyer, 1842) (Larentia) misappl.
chagnonii Swett, 1911 (Eupithecia)
gibsonata Taylor, 1910 (Eupithecia) [7517]
91a0225 E. uinta Rindge, 1956 (Eupithecia) 7519
91a0226 E. satyrata (Hübner, [1813]) (Geometra) extralim. H 7520
ssp. a. intimata Pearsall, 1908 (Eupithecia)
ssp. b. dodata Taylor, 1906 (Eupithecia)
divinula Cassino & Swett, 1924 (Eupithecia)
fumata Taylor, 1910 (Eupithecia)
mackieata Cassino & Swett, 1925 (Eupithecia)
slocanata Taylor, 1908 (Eupithecia)
terminata Taylor, 1908 (Eupithecia) [7521]
91a0227 E. nimbicolor (Hulst, 1896) (Tephroclystis) 7522
adornata Taylor, 1906 (Eupithecia)
inclarata Cassino & Swett, 1924 (Eupithecia)
incresata Pearsall, 1910 (Eupithecia)
obscurior (Hulst, 1896) (Tephroclystis)
91a0228 E. strattonata Packard, 1873 (Eupithecia) 7523
91a0229 E. macfarlandi Ferris, 2007 (Eupithecia) [NEW]
NOTE: This species was overlooked by Pohl et al. (2016).
91a0230 E. cimicifugata Pearsall, 1908 (Eupithecia) 7524
grata Taylor, 1910 (Eupithecia) [7525]
91a0231 E. russeliata Swett, 1908 (Eupithecia) 7526
ssp. a. russeliata Swett, 1908 (Eupithecia)
ssp. b. brauneata Swett, 1908 (Eupithecia)
91a0232 E. ammonata McDunnough, 1929 (Eupithecia) 7527
91a0233 E. swettii Grossbeck, 1907 (Eupithecia) 7530
ritaria Cassino, 1927 (Eupithecia)
91a0234 E. indistincta Taylor, 1910 (Eupithecia) 7531
91a0235 E. zygadeniata Packard, 1876 (Eupithecia) 7532
NOTE: The MONA Number has been emended, it was incorrectly listed as 7531 by Ferguson (in Hodges et al. 1983).
tenebrescens (Hulst, 1900) (Tephroclystis)
91a0236 E. cretaceata (Packard, 1874) (Larentia) 7533
fenestrata Millière, 1874 (Eupithecia)
91a0237 E. nimbosa (Hulst, 1896) (Tephroclystis) 7534
ssp. a. nimbosa (Hulst, 1896) (Tephroclystis)
plenoscripta (Hulst, 1900) (Tephroclystis)
ssp. b. bindata Pearsall, 1910 (Eupithecia)
91a0238 E. behrensata Packard, 1876 (Eupithecia) 7535
monterata Cassino & Swett, 1922 (Eupithecia)
perillata Pearsall, 1912 (Eupithecia)
91a0239 E. multiscripta (Hulst, 1896) (Tephroclystis) 7536
NOTE: *Eupithecia multiscripta* was treated as a subspecies of *E. behrensata* by Ferris (2018), but we retain it as a full species pending further research.
91a0240 E. sewardata Bolte, 1977 (Eupithecia) 7537
91a0241 E. sharronata Bolte, 1990 (Eupithecia) [NEW]
91a0242 E. gelidata Möschler, 1860 (Eupithecia) 7538
compactata Taylor, 1910 (Eupithecia)
flebilis (Hulst, [1901] 1900) (Tephroclystis)
hyperboreata Staudinger, 1861 (Eupithecia)
lagganata Taylor, 1910 (Eupethecia [sic])
nordeggensis Cassino & Swett, 1922 (Eupithecia)
91a0243 E. multistrigata (Hulst, 1896) (Tephroclystis) 7539
spaldingi Taylor, 1910 (Eupithecia)
91a0244 E. perfusca (Hulst, 1898) (Tephroclystis) 7540
alberta Taylor, 1906 (Eupithecia)
cootenaiata (Dyar, 1904) (Tephroclystia)
hanhami Taylor, 1906 (Eupithecia) [7541]
innotata of authors; (not Hufnagel, 1767) (Phalaena) misappl.
kootenaiata; Barnes & McDunnough, 1912 (Eupithecia) emend.
winnata Taylor, 1910 (Eupithecia)
youngata Taylor, 1906 (Eupithecia)
91a0245 E. annulata (Hulst, 1896) (Tephroclystis) 7543
filmata Pearsall, 1908 (Eupithecia) [7542]
limnata Pearsall, 1909 (Eupithecia)
orfordata Cassino, 1927 (Eupithecia)
usurpata Pearsall, 1909 (Eupithecia) [7545]
vinsullata MacKay, 1951 (Eupithecia) [7544]
91a0246 E. longispinata Ferris, 2022 (Eupithecia) [NEW]
91a0247 E. olivacea Taylor, 1906 (Eupithecia) 7546
91a0248 E. cognizata Pearsall, 1910 (Eupithecia) 7547

91a0249 E. lachrymosa (Hulst, 1900) (Tephroclystis) 7548
georgii McDunnough, 1929 (Eupithecia) *[7549]*
kananaskata MacKay, 1951 (Eupithecia) *[7550]*
91a0250 E. lafontaineata Bolte, 1990 (Eupithecia) [NEW]
undata of authors; (not Freyer, [1840]) (Larentia) misappl. *[7484]*
91a0251 E. lariciata (Freyer, 1841) (Larentia) H/I [NEW]
ssp. a. lariciata (Freyer, 1841) (Larentia)
bifasciata (Dyar, 1904) (Tephroclystis)
catskillata Pearsall, 1908 (Eupithecia)
fasciata Taylor, 1910 (Eupithecia)
luteata Packard, 1867 (Eupithecia) *[7489]*
residuata (Hübner, [1817]) (Geometra)
91a0252 E. niphadophilata (Dyar, 1904) (Tephroclystis) 7552
91a0253 E. subcolorata (Hulst, 1898) (Tephroclystis) 7553
91a0254 E. appendiculata McDunnough, 1946 (Eupithecia) 7554
91a0255 E. assimilata Doubleday, 1856 (Eupithecia) H [NEW]
fumosa (Hulst, 1896) (Tephroclystis) *[7528]*
grisescena Dietze, 1910 (Eupithecia)
91a0256 E. zelmira Swett & Cassino, 1920 (Eupithecia) 7555
91a0257 E. vitreotata Cassino, 1927 (Eupithecia) 7556
91a0258 E. segregata Pearsall, 1910 (Eupithecia) 7557
bonita Cassino & Swett, 1925 (Eupithecia)
91a0259 E. pinata Cassino, 1925 (Eupithecia) 7558
91a0260 E. tenuata Hulst, 1880 (Eupithecia) 7559
linariata of authors; (not [Denis & Schiffermüller], 1775) (Geometra) misappl.
91a0261 E. phyllisae Rindge, 1963 (Eupithecia) 7560
91a0262 E. agnesata Taylor, 1908 (Eupithecia) 7561
barnesi Cassino & Swett, 1922 (Eupithecia)
91a0263 E. huachuca Grossbeck, 1908 (Eupithecia) 7562
91a0264 E. woodgatata (Cassino & Swett, 1923) (Prorella) 7563
91a0265 E. stellata (Hulst, 1896) (Tephroclystis) 7564
91a0266 E. bowmani Cassino & Swett, 1923 (Eupithecia) 7565
91a0267 E. broui Rindge, 1985 (Eupithecia) [NEW]
91a0268 E. niveifascia (Hulst, 1898) (Tephroclystis) 7566
perbrunneata Taylor, 1906 (Eupithecia)
91a0269 E. joanata [Cassino & Swett], 1922 (Eupithecia) 7567
balboata Cassino & Swett, 1925 (Eupithecia)
91a0270 E. flavigutta (Hulst, 1896) (Tephroclystis) 7568
91a0271 E. sonora Ferris & Opler, 2008 (Eupithecia) [NEW]
91a0272 E. sperryi McDunnough, 1939 (Eupithecia) 7569
91a0273 E. johnstoni McDunnough, 1946 (Eupithecia) 7570
91a0274 E. dichroma McDunnough, 1946 (Eupithecia) 7571
91a0275 E. rindgei McDunnough, 1949 (Eupithecia) 7572
91a0276 E. cocoata Pearsall, 1908 (Eupithecia) 7573
91a0277 E. albicapitata Packard, 1876 (Eupithecia) 7574
91a0278 E. mutata Pearsall, 1908 (Eupithecia) 7575
togata of authors; (not Hübner, [1817]) (Geometra) misappl.
91a0279 E. columbrata McDunnough, 1940 (Eupithecia) 7577
NOTE: Accorded species status by Scoble (1999), despite Bolte (1990) considering *columbrata* to be a subspecies of *E. mutata*. Forbes (1948) treated it under the Old World name *E. pini*.
pini of authors; (not Retzius, 1783) (Tinea) misappl.
91a0280 E. helena Taylor, 1906 (Eupithecia) 7576
91a0281 E. spermaphaga (Dyar, 1917) (Eucymatoge) 7578
91a0282 E. purpurissata Grossbeck, 1908 (Eupithecia) 7579
ssp. a. purpurissata Grossbeck, 1908 (Eupithecia)
ssp. b. valariata Pearsall, 1910 (Eupithecia)
muriflua (Dyar, 1923) (Tephroclystia)
91a0283 E. mystiata Cassino, 1925 (Eupithecia) 7580
91a0284 E. gilvipennata Cassino & Swett, 1922 (Eupithecia) 7581
91a0285 E. scabrogata Pearsall, 1912 (Eupithecia) 7583
vistata Cassino & Swett, 1922 (Eupithecia)
91a0286 E. hohokamae Rindge, 1963 (Eupithecia) 7584
91a0287 E. adequata Pearsall, 1910 (Eupithecia) 7585
91a0288 E. acutipennis (Hulst, 1898) (Tephroclystis) 7586
91a0289 E. absinthiata (Clerck, 1759) (Phalaena) H/I [NEW]
callunae Speyer, 1867 (Eupithecia)
coagulata Guenée, [1858] (Eupithecia) *[7529]*
elongata (Haworth, 1809) (Phalaena)
geminata Packard, 1873 (Eupithecia)
gossensiata Mabille, 1869 (Eupithecia)
knautiata Gregson, 1874 (Eupithecia)
meritata Pearsall, 1908 (Eupithecia)
minutata ([Denis & Schiffermüller], 1775) (Geometra)
notata Stephens, 1831 (Eupithecia)
packardata Taylor, 1907 (Eupithecia)
91a0290 E. subapicata Guenée, [1858] (Eupithecia) 7587
occidentaliata (Packard, 1871) (Chesias)
91a0291 E. shirleyata Cassino & Swett, 1922 (Eupithecia) 7588
91a0292 E. sinuata McDunnough, 1946 (Eupithecia) 7589
91a0293 E. redingtonia McDunnough, 1949 (Eupithecia) 7590
91a0294 E. gilata Cassino, 1925 (Eupithecia) 7591
91a0295 E. plumasata McDunnough, 1946 (Eupithecia) 7592
91a0296 E. zekiyae Koçak, 1986 (Eupithecia) [NEW]
NOTE: The name *deserticola* McDunnough, 1946, is a junior homonym of *Eupithecia deserticola* Turati, 1934. Ferris & Mironov (2007) proposed *jamesi* as a replacement name, not realizing that Koçak (1986) had already proposed *zekiyae*.
deserticola McDunnough, 1946 (Eupithecia) preocc. *[7593]*
jamesi Ferris & Mironov, 2007 (Eupithecia)
91a0297 E. anticaria Walker, 1862 (Eupithecia) 7594
explanata Walker, 1862 (Eupithecia)
91a0298 E. nonanticaria Ferris, 2007 (Eupithecia) [NEW]
NOTE: A recently described species overlooked by Pohl et al. (2016).
91a0299 E. pertusata McDunnough, 1938 (Eupithecia) 7595
91a0300 E. tricolorata Cassino, 1927 (Eupithecia) 7596
91a0301 E. carneata McDunnough, 1946 (Eupithecia) 7597
91a0302 E. classicata Pearsall, 1909 (Eupithecia) 7598
penumbrata (Pearsall, 1912) (Eucymatoge) *[7599]*
91a0303 E. graefii (Hulst, 1896) (Eucymatoge) 7600
ssp. a. graefii (Hulst, 1896) (Eucymatoge)
stikineata Cassino & Swett, 1922 (Eupithecia)
vancouverata (Taylor, 1906) (Eucymatoge)
vancouverensis (Pearsall, 1910) (Eucymatoge)
ssp. b. tulareata [Cassino & Swett], 1922 (Eupithecia)
91a0304 E. nevadata Packard, 1871 (Eupithecia) 7601
ssp. a. nevadata Packard, 1871 (Eupithecia)
moirata Swett & Cassino, 1919 (Eupithecia)
probata Swett & Cassino, 1919 (Eupithecia)
ssp. b. geneura Swett & Cassino, 1919 (Eupithecia)
ssp. c. morensata Cassino & Swett, 1922 (Eupithecia)
91a0305 E. implorata (Hulst, 1896) (Tephroclystis) 7602
91a0306 E. cestata (Hulst, 1896) (Tephroclystis) 7603
91a0307 E. cestatoides McDunnough, 1949 (Eupithecia) 7604
91a0308 E. ravocostaliata Packard, 1876 (Eupithecia) 7605
91a0309 E. succenturiata (Linnaeus, 1758) (Phalaena) UNVER. H [NEW]
NOTE: Added to the the NA fauna from AK by Ferris et al. (2012), but the voucher specimen at the University of Guelph, ON is apparently missing, so that has not been verified.
disparata (Hübner, [1799]) (Geometra)
exalbidata (Staudinger, 1901) (Tephroclystia)
91a0310 E. penablanca Ferris, 2007 (Eupithecia) [NEW]
NOTE: A recently described species overlooked by Pohl et al. (2016).
91a0311 E. inferior (Hulst, 1896) (Gymnocelis [sic]) N. COMB. 7606
91a0312 E. vallis (Ferris, 2004) (Nasusina) N. COMB. [NEW]
91a0313 E. vaporata Pearsall, 1912 (Eupithecia) REV. COMB. 7607
91a0314 E. mendicata Barnes & McDunnough, 1918 (Eupithecia) REV. COMB. 7608
91a0315 E. minuta (Hulst, 1896) (Gymnocelis [sic]) N. COMB. 7609
91a0316 E. emmedonia Grossbeck, 1908 (Eupithecia) REV. COMB. 7610
91a0317 E. gypsata Grote, 1882 (Eupethecia [sic]) REV. COMB. 7611
91a0318 E. discoidalis (Grossbeck, 1908) (Gymnocelis [sic]) N. COMB. 7612
91a0319 E. leucata (Hulst, 1896) (Tephroclystis) N. COMB. 7613
91a0320 E. albida (Cassino & Swett, 1923) (Nasusina) N. COMB. 7614
ruthiata Cassino, 1927 (Eupithecia)
91a0321 E. ochrocarneata (McDunnough, 1949) (Prorella) N. COMB. 7615
91a0322 E. irremorata (Dyar, 1923) (Nasusina) N. COMB. 7616
91a0323 E. tremorata (McDunnough, 1949) (Prorella) N. COMB. 7617
91a0324 E. remorata (Grossbeck, 1907) (Gymnocelis [sic]) N. COMB. 7618
91a0325 E. desperata (Hulst, 1896) (Gymnocelis [sic]) N. COMB. 7619

91a0326 E. artestata (Grossbeck, 1908) (Gymnocelis [sic]) N. COMB. 7620

91a0327 E. mellisa (Grossbeck, 1908) (Gymnocelis [sic]) N. COMB. 7621

91a0328 E. insipidata (Pearsall, 1910) (Nasusina) N. COMB. 7622

91a0329 E. opinata (Pearsall, 1909) (Nasusina) N. COMB. 7623

91a0330 E. protoptata McDunnough, 1938 (Eupithecia) N. COMB. 7624

Genus PASIPHILA Meyrick, 1883

ID INFO: Ferguson & Mello (1996).

CALLICLYSTIS Dietze, 1910
CHLOROCLYSTIS Hübner, 1825
DYSERGA Petersen, 1909

91a0331 P. rectangulata (Linnaeus, 1758) (Phalaena) I 7625

NOTE: Introduced from Europe, first detected in NS in 1970 (Maier 2005b).

bischoffaria (Geyer, [1838]) (Geometra)
griseata (Staudinger, 1897) (Eupithecia)
mediana (Panzer, 1804) (Pyralis)
nigrosericeata (Haworth, 1809) (Phalaena)
sericeata (Haworth, 1809) (Phalaena)
subaerata (Hübner, 1817) (Geometra)
viridulata (Hufnagel, 1767) (Phalaena)

Tribe OPEROPHTERINI Packard, 1876

Genus EPIRRITA Hübner, 1822

OPORABIA Stephens, 1831
OPORINIA Hübner, 1825

91a0332 E. autumnata (Borkhausen, 1794) (Phalaena) extralim. H 7433

ssp. a. henshawi (Swett, 1917) (Oporinia)
ssp. b. omissa (Harrison, 1932) (Oporinia)
coarctata (Harrison, 1932) (Oporinia)
dayi (Harrison, 1932) (Oporinia)
dilutata of authors; (not [Denis & Schiffermüller], 1775) (Geometra) misappl.
latifasciata (Harrison, 1942) (Oporinia)
oblita (Harrison, 1932) (Oporinia)
suffusa (Harrison, 1932) (Oporinia)

91a0333 E. undulata (Harrison, 1942) (Oporinia) 7434
extensa (Harrison, 1942) (Oporinia)

Genus MALACODEA Tengström, 1869

91a0334 M. pulchraria (Taylor, 1907) (Rachela) 7435

NOTE: Truuverk et al. (2017) transferred *Epirrita pulchraria* to *Malacodea*.

Genus OPEROPHTERA Hübner, 1825

ID INFO: Troubridge & Fitzpatrick (1993).

OPOROPHTERA; McDunnough, 1938 missp.
PARAPTERA Hulst, 1896
RACHELA Hulst, 1896

91a0335 O. brumata (Linnaeus, 1758) (Phalaena) I 7436

NOTE: Introduced from Europe, first reported in NA in NS in 1949 but it may have been present for over 30 years already. It was found on the west coast in BC in 1976 (Troubridge & Fitzpatrick 1993).

91a0336 O. bruceata (Hulst, 1886) (Cheimatobia) 7437
groenlandica Lesse, 1951 (Operophtera)

91a0337 O. occidentalis (Hulst, 1896) (Rachela) 7438

NOTE: Elevated to full species following Gwiazdowski et al. (2013), after being synonymized by Troubridge & Fitzpatrick (1993).

hyperborea (Hulst, 1896) (Rachela)
latipennis (Hulst, 1896) (Rachela)

91a0338 O. danbyi (Hulst, 1896) (Paraptera) 7439

Genus TESCALSIA Ferguson, 1994

ID INFO: Powell & Ferguson (1994).

91a0339 T. giulianiata Ferguson, 1994 (Tescalsia) [NEW]

91a0340 T. minata Ferguson, 1994 (Tescalsia) [NEW]

Tribe RHEUMAPTERINI Herbulot, 1961

NOTE: Viidalepp (2006, 2011) presented characters to distinguish Rheumapterini from Triphosini and the Palaearctic Phileremini Pierce, 1914, but Brehm et al. (2019) suggest that the three tribes may be synonymized in future work.

Genus RHEUMAPTERA Hübner, 1822

ID INFO (partial): McGuffin (1973), Skou (1986).

NOTE: Traditionally (e.g., Ferguson, in: Hodges et al. 1983), *Coryphista* and *Hydria* have been treated as separate genera, but Scoble (1999) treated them as synonyms of *Rheumaptera*. Although Hausmann & Viidalepp (2012) provided a more restricted concept of *Rheumaptera* by maintaining *Hydria* as a valid genus, that is strongly contradicted by the Brehm et al. (2019) analysis. The multi-gene phylogenetic analysis of the latter demonstrated that the type species of *Hydria* (*H. undulata*) is embedded well within *Rheumaptera* — in fact, it comes out as sister to *R. hastata*, the type-species of *Rheumaptera*. Brehm et al. (2019) also presented a convincing argument that *Coryphista* is indeed a junior synonym of *Rheumaptera*. We follow Scoble (1999) and Brehm et al. (2019) and treat *Coryphista* and *Hydria* as junior synonyms of *Rheumaptera*.

CALOCALPE Hübner, 1825
CORYPHISTA Hulst, 1896
EUCOSMIA Stephens, 1831
EULYPE Hübner, 1825
HYDRIA Hübner, 1822
MELANIPPE Duponchel, 1829

91a0341 R. meadii (Packard, 1874) (Scotosia) 7290
ssp. a. meadii (Packard, 1874) (Scotosia)
badiaria (Edwards, 1885) (Triphosa)
optimata (Strecker, 1899) (Philereme)
ssp. b. atlantica (Munroe, 1954) (Coryphista)
ssp. c. fumosa (Comstock, 1967) (Coryphista)

91a0342 R. undulata (Linnaeus, 1758) (Phalaena) extralim. H 7291
ssp. a. bluff (Bryk, 1921) (Eucosmia)

NOTE: This subspecies was overlooked by Ferguson (in Hodges et al. 1983).

91a0343 R. prunivorata (Ferguson, 1955) (Calocalpe) 7292

91a0344 R. hastata (Linnaeus, 1758) (Phalaena) H 7293
ssp. a. hastata (Linnaeus, 1758) (Phalaena)
ssp. b. gothicata (Guenée, [1858]) (Melanippe)
furcifascia (Walker, 1862) (Melanippe)
icterata (Guenée, [1858]) (Melanippe)

91a0345 R. subhastata (Nolcken, 1870) (Cidaria) extralim. H 7294
ssp. a. albodecorata (Blackmore, 1920) (Eulype)
ssp. b. confusa (McDunnough, 1937) (Eulype)
ssp. c. stygiata (McDunnough, 1937) (Eulype)

91a0346 R. affirmata (Guenée, [1858]) (Scotosia) 7286

NOTE: Transferred from *Triphosa* to *Rheumaptera* by Brehm et al. (2019).

progressata (Walker, 1862) (Scotosia)

Tribe TRIPHOSINI Tutt, 1896

NOTE: See note under Rheumapterini.

Genus TRIPHOSA Stephens, 1829

UMBROSINA Bruand, 1847

91a0347 T. haesitata (Guenée, [1858]) (Scotosia) 7285
dubitata of authors; (not Linnaeus, 1758) (Phalaena) misappl.
ssp. a. haesitata (Guenée, [1858]) (Scotosia)
pustularia Edwards, 1885 (Triphosa)
ssp. b. affirmaria (Walker, 1860) (Scotosia)
indubitata (Grote, 1882) (Scotosia)

91a0348 T. californiata (Packard, 1871) (Scotosia) 7287
packardata (Grossbeck, 1907) (Mesoleuca)

91a0349 T. bipectinata Barnes & McDunnough, 1917 (Triphosa) 7288

Tribe PSALIODINI Brehm, Murillo-Ramos & Òunap, 2019

Genus PSALIODES Guenée, 1857

91a0350 P. fervescens Dyar, 1920 (Psaliodes) 7315

91a0351 P. interrupta (Grossbeck, 1910) (Mesoleuca) N. COMB. 7321

NOTE: The taxa *interrupta* and *ochreata* are here transferred to *Psaliodes* from *Perizoma* (n. comb.) based on DNA variation and morphology. This act renders the Neotropical species *Psaliodes interrupta* (Dognin, 1913) a secondary junior homonym of *P. interrupta* (Grossbeck, 1910), so the former will require a replacement name. We refrain from assigning one here, where it may not be easily found by Neotropical workers.

91a0352 P. ochreata (Grossbeck, 1910) (Mesoleuca) N. COMB. 7322
NOTE: See note under *P. interrupta*.

[LARENTIINAE – UNNAMED TRIBE 1]

NOTE: Murillo-Ramos et al. (2019) found that *Lampropteryx* belongs to an as yet unnamed tribe.

Genus LAMPROPTERYX Stephens, 1831
ID INFO: Choi (2000).

91a0353 L. suffumata ([Denis & Schiffermüller], 1775) (Geometra) H [NEW]
piceata Stephens, 1831 (Lampropteryx)

Tribe CIDARIINI Duponchel, 1845

Genus DYSSTROMA Hübner, 1825
CHLOROCLYSTA Hübner, 1825
EUTHALIA Stephens, 1831
POLYPHASIA Stephens, 1831

91a0354 D. citrata (Linnaeus, 1761) (Phalaena) H 7182
ssp. a. citrata (Linnaeus, 1761) (Phalaena)
amaenata (Stephens, 1831) (Phalaena)
immanaria (Doubleday, 1849) (Harpalyce)
immanata (Haworth, 1809) (Phalaena)
marmorata (Fabricius, 1794) (Phalaena)
mulleolata (Hulst, 1881) (Cidaria)
omicronata (Donovan, 1811) (Phalaena)
passeraria (Freyer, [1846]) (Cidaria)
septentrionata (Heydemann, 1929) (Cidaria)
simpliciata (Walker, 1862) (Cidaria)
strigulata (Fabricius, 1794) (Phalaena)
tibetana (Heydemann, 1929) (Cidaria)
variata (Thunberg, 1784) (Geometra)
ssp. b. glacialis (Hulst, 1898) (Xanthorhoe)
longula (Hulst, 1898) (Xanthorhoe)
91a0355 D. hewlettaria Wright, 1927 (Dysstroma) 7183
91a0356 D. sobria Swett, 1917 (Dysstroma) 7184
subumbrata Swett, 1917 (Dysstroma)
swetti Blackmore, 1921 (Dysstroma)
91a0357 D. suspectata (Möschler, 1874) (Cidaria) 7185
ssp. a. suspectata (Möschler, 1874) (Cidaria)
ssp. b. mackieata Cassino & Swett, 1923 (Dysstroma)
91a0358 D. ochrofuscaria Ferguson, 1983 (Dysstroma) [NEW]
NOTE: This name was originally published as an unavailable infrasubspecific name, but it was made available when Ferguson (in Hodges et al. 1983) recognized it as a valid species.
ochrofuscaria Swett, 1917 (Dysstroma) *[7186]*
91a0359 D. infuscata (Tengström, 1869) (Cidaria) H [NEW]
NOTE: Report of this species from NT by McDunnough (1946a) was thought to be a misidentification of *D. suspectata*, and it was listed as such by Ferguson (in Hodges et al. 1983). However, it was subsequently "discovered" in NA (AB) by Pohl et al. (2010).
ssp. a. infuscata (Tengström, 1869) (Cidaria)
91a0360 D. truncata (Hufnagel, 1767) (Phalaena) extralim. H 7187
ssp. a. traversata (Kellicott, 1886) (Hydriomena)
91a0361 D. walkerata (Pearsall, 1909) (Mesoleuca) 7188
91a0362 D. pseudimmanata (Heydemann, 1929) (Cidaria) H [NEW]
NOTE: Formerly known only from the Palaearctic, reported from NA (AB to AK and south to CA) by Pohl et al. (2010).
ssp. a. pseudimmanata (Heydemann, 1929) (Cidaria)
91a0363 D. hersiliata (Guenée, [1858]) (Cidaria) 7189
ssp. a. hersiliata (Guenée, [1858]) (Larentia)
flammifera (Walker, 1862) (Larentia)
mirandata (Taylor, 1910) (Cidaria)
ssp. b. cervinifascia (Walker, 1862) (Larentia)
ssp. c. manitoba McDunnough, 1939 (Dysstroma)
infumata McDunnough, 1939 (Dysstroma)
91a0364 D. rutlandia McDunnough, 1943 (Dysstroma) 7190
perfuscata McDunnough, 1943 (Dysstroma)
91a0365 D. formosa (Hulst, 1896) (Philereme) 7191
ssp. a. formosa (Hulst, 1896) (Philereme)
admiranda McDunnough, 1927 (Dysstroma)
boreata (Taylor, 1910) (Mesoleuca)
gilvifasciata McDunnough, 1939 (Dysstroma)
ssp. b. occidentata (Taylor, 1910) (Mesoleuca)
mutata (Taylor, 1910) (Mesoleuca)
91a0366 D. colvillei Blackmore, 1926 (Dysstroma) 7192
91a0367 D. rectiflavata McDunnough, 1941 (Dysstroma) 7193
91a0368 D. brunneata (Packard, 1867) (Cidaria) 7194
ssp. a. brunneata (Packard, 1867) (Cidaria)
casloata (Taylor, 1910) (Mesoleuca)
ssp. b. ethela (Hulst, 1896) (Mesoleuca)
91a0369 D. mancipata (Guenée, [1858]) (Cidaria) 7195
ssp. a. mancipata (Guenée, [1858]) (Cidaria)
leoninata (Packard, 1871) (Cidaria)
subochreata (Packard, 1871) (Cidaria)
ssp. b. hulstata (Taylor, 1907) (Mesoleuca)
ssp. c. decorata (Taylor, 1910) (Mesoleuca)

Genus EULITHIS Hübner, 1821
EUPHIA Hübner, 1825
LYGRIS Hübner, 1825
NEOLEXIA Hulst, 1896
PHYLACE Hulst, 1896
STEGANOLOPHIA Stephens, 1829

91a0370 E. diversilineata (Hübner, [1813]) (Petrophora) 7196
91a0371 E. gracilineata (Guenée, [1858]) (Cidaria) 7197
91a0372 E. luteolata (Hulst, 1896) (Phylace) 7198
91a0373 E. propulsata (Walker, 1862) (Cidaria) 7199
packardata (Lintner, 1878) (Cidaria)
ximena (Ellsworth, 1918) (Neolexia)
91a0374 E. prunata (Linnaeus, 1758) (Phalaena) I [NEW]
NOTE: Handfield (1999) reports this European species as established in southern QC.
ssp. a. prunata (Linnaeus, 1758) (Phalaena)
annexa (Schima, 1909) (Lygris)
dolomitica (Strand, 1927) (Lygris)
ochraceata (Lambillion, 1903) (Lygris)
ribesiaria (Boisduval, 1840) (Cidaria)
91a0375 E. populata (Linnaeus, 1758) (Phalaena) H/I 7200
dotata (Linnaeus, 1758) (Phalaena)
pallidata (Lambillion, 1903) (Lygris)
91a0376 E. testata (Linnaeus, 1761) (Phalaena) 7201
achatinata (Hübner, 1799) (Geometra)
colorata (Fabricius, 1794) (Phalaena)
insulicola Staudinger, 1901 (Eulithis)
91a0377 E. mellinata (Fabricius, 1787) (Phalaena) I 7202
NOTE: Introduced from Europe, first found in QC in 1967 (Neil 1978).
associata (Borkhausen, 1794) (Phalaena)
marmorata (Hübner, 1799) (Geometra)
spinaciata (Haworth, 1809) (Phalaena)
91a0378 E. molliculata (Walker, 1862) (Cidaria) 7203
remotata (Walker, 1862) (Cidaria)
91a0379 E. destinata (Möschler, 1860) (Cidaria) 7204
ssp. a. destinata (Möschler, 1860) (Cidaria)
lugubrata (Möschler, 1862) (Lygris)
nubilata (Packard, 1867) (Cidaria)
similis (Walker, 1862) (Pelurga)
ssp. b. triangulata (Packard, 1873) (Cidaria)
montanata (Packard, 1873) (Cidaria)
ssp. c. schistacea (Warren, 1901) (Polyphasia)
bowmani (Cassino & Swett, 1922) (Lygris)
griseata (Cassino & Swett, 1922) (Lygris)
ssp. d. harveyata (Taylor, 1906) (Eustroma)
91a0380 E. flavibrunneata (McDunnough, 1943) (Lygris) 7205
unicolorata (McDunnough, 1943) (Lygris)
91a0381 E. explanata (Walker, 1862) (Cidaria) 7206
brunneomaculata (Bates, 1886) (Rheumaptera)
cunigerata (Walker, 1863) (Cidaria)
disjunctaria (Packard, 1873) (Cidaria)
91a0382 E. xylina (Hulst, 1896) (Neolexia) 7207
ssp. a. xylina (Hulst, 1896) (Neolexia)
ssp. b. speciosa (Hulst, 1896) (Neolexia)
91a0383 E. serrataria (Barnes & McDunnough, 1917) (Lygris) 7208

Genus EURHINOSEA Packard, 1873

91a0384 E. flavaria Packard, 1873 (Eurhinosea) 7209

Genus ANTEPIRRHOE Warren, 1905
EUSTROMA Hübner, 1825

91a0385 A. semiatrata (Hulst, 1881) (Cidaria) 7210

macdunnoughi (Blackmore, 1920) (Eustroma)

91a0386 A. fasciata (Barnes & McDunnough, 1918) (Eustroma) 7211

91a0387 A. atrifasciata (Hulst, 1888) (Cleora) 7212
delimitata (Warren, 1895) (Epirrhoe)

Genus ECLIPTOPERA Warren, 1894
DIACTINIA Warren, 1898

91a0388 E. silaceata ([Denis & Schiffermüller], 1775) (Geometra)
extralim. H 7213
ssp. a. albolineata (Packard, 1873) (Cidaria)

Genus GANDARITIS Moore, [1868]
ID INFO (partial): Ferguson & Choi (2001).
NOTE: The species *G. atricolorata* and *G. powellata* were transferred to *Gandaritis* by Choi (2001), from *Ecliptopera* and *Eulithis*, respectively.

91a0389 G. atricolorata (Grote & Robinson, 1867) (Cidaria) 7214
91a0390 G. powellata (Ferguson & Choi, 2001) (Eulithis) [NEW]

Genus COLOSTYGIA Hübner, 1825
AMOEBE Hübner, 1825
CALOSTYGIA; [various, no date] missp.
ERINOBIA Stephens, 1850

91a0391 C. circumvallaria (Taylor, 1906) (Xanthorhoe) H [NEW]
NOTE: Nearctic populations, previously treated within a Holarctic concept of *C. turbata* were raised to full species by Schmidt & Anweiler (in Pohl et al. 2010; Appendix) based on differences in morphology and DNA.
turbata of authors; (not Hübner, [1799]) (Geometra) misappl. *[7215]*

Genus PLEMYRIA Hübner, 1825
ID INFO: Choi (1998).

91a0392 P. georgii Hulst, 1896 (Plemyria) 7216
ssp. a. georgii Hulst, 1896 (Plemyria)
ssp. b. benesignata (Barnes & McDunnough, 1917) (Thera)

Genus THERA Stephens, 1831

91a0393 T. juniperata (Linnaeus, 1758) (Phalaena) I 7217
NOTE: Introduced from Europe.
ssp. a. juniperata (Linnaeus, 1758) (Phalaena)
procteri Brower, 1940 (Thera)

91a0394 T. contractata (Packard, 1873) (Cidaria) 7218
NOTE: Listed in *Thera* and in *Hydriomena* by Poole & Gentili (1996).

91a0395 T. otisi (Dyar, 1904) (Mesoleuca) 7219

91a0396 T. latens Barnes & McDunnough, 1917 (Thera) 7220

Genus CERATODALIA Packard, 1876
NOTE: Transferred to the Cidariini by Brehm et al. (2019).

91a0397 C. gueneata Packard, 1876 (Ceratodalia) 7221
excurvata (Grote, 1883) (Petrophora)

Genus TRICHODEZIA Warren, 1895
NOTE: Transferred to the Cidariini by Viidalepp (1996, 2011) and recently supported by Murillo-Ramos et al. (2019) and Brehm et al. (2019).
NEODEZIA Warren, 1904

91a0398 T. albovittata (Guenée, [1858]) (Odezia) 7430
ssp. a. albovittata (Guenée, [1858]) (Odezia)
propriaria (Walker, 1862) (Melanippe)
reciprocata (Walker, 1862) (Melanippe)
ssp. b. tenuifasciata Barnes & McDunnough, 1917 (Trichodezia)

91a0399 T. albofasciata (Grote, 1863) (Baptria) 7431

91a0400 T. californiata (Packard, 1871) (Baptria) 7432

[LARENTIINAE – UNNAMED TRIBE 2]

NOTE: Brehm et al. (2019) found that *Disclisioprocta* belongs in its own (as yet unnamed) tribe.

Genus DISCLISIOPROCTA Wallengren, 1861
CAMPTLINA Schaus, 1940

91a0401 D. stellata (Guenée, [1858]) (Scotosia) 7417
albosignata (Packard, 1873) (Scotosia)
balteolata (Herrich-Schäffer, 1865) (Larentia)
foedata (Warren, 1900) (Camptogramma)
fuscovariata (Wallengren, 1860) (Gnophos)
impauperata (Walker, 1862) (Scotosia)

Tribe EUPHYIINI Herbulot, 1961

NOTE: Tribe resurrected by Brehm et al. (2019) following Viidalepp (2011).

Genus EUPHYIA Hübner, 1825

91a0402 E. swetti Cassino, 1927 (Euphyia) 7398

91a0403 E. intermediata (Guenée, [1858]) (Melanippe) [NEW]
NOTE: Nearctic populations, previously treated as a subspecies within a Holarctic concept of *E. unangulata*, were accorded species status by Scoble (1999).
amniculata (Hübner, [1813]) (Geometra)
ideata (Walker, 1862) (Melanippe)
unangulata of authors; (not Haworth, 1809) (Phalaena) misappl. *[7399]*

Genus HAMMAPTERA Herrich-Schäffer, 1855
NOTE: Transferred by Brehm et al. (2019) to Euphyini.

91a0404 H. parinotata (Zeller, 1872) (Cidaria) 7314
ssp. a. parinotata (Zeller, 1872) (Cidaria)
anomala (Butler, 1878) (Ypsipetes)
ssp. b. densata (Grossbeck, 1909) (Hydriomena)

Genus "PERIZOMA" (GROUP 1) Hübner, 1825 PROV. PL.
NOTE: Ònap et al. (2019) transfered *Perizoma custodiata* Packard to the Euphyiini, unrelated to other Nearctic "*Perizoma*"; it requires a new genus.

91a0405 P. custodiata (Guenée, [1858]) (Eubolia) 7328
carnata (Packard, 1874) (Phibalapteryx)
gueneeata (Packard, 1876) (Ochyria)
polygrammata (Hulst, 1896) (Coenocalpe)

Tribe PTEROCYPHINI Brehm, Murillo-Ramos & Òunap, 2019

Genus ARCHIRHOE Herbulot, 1951

91a0406 A. neomexicana (Hulst, 1896) (Hydriomena) 7295
elisata (Strecker, 1899) (Hydriomena)

91a0407 A. indefinata (Grossbeck, 1907) (Hydriomena) 7296

91a0408 A. associata (McDunnough, 1941) (Camptogramma) 7297

91a0409 A. multipunctata (Taylor, 1906) (Hydriomena) 7298

Genus PTEROCYPHA Herrich-Schäffer, 1855

91a0410 P. defensata Walker, 1862 (Pterocypha) [NEW]
NOTE: Ferguson (in Hodges et al. 1983) listed *floridata* as the valid taxon name, but *defensata* is an older available name tentatively used here following Becker & Miller (2002). The group is in need of revision as two species are present under this name in FL.
australata (Hulst, 1886) (Azelina)
decertaria (Herrich-Schäffer, 1870) (Larentia)
floridata (Walker, [1863]) (Phibalapteryx) *[7299]*

Tribe XANTHORHOINI Pierce, 1914

NOTE: Diagnostic characters of Xanthorhoini were described by Viidalepp (2011). Phylogenetic analysis by Brehm et al. (2019) found Xanthorhoini to be monophyletic.

Genus XANTHORHOE Hübner, 1825
ID INFO (partial): Ferguson (1987).
COREMIA Guenée, 1845
MALENYDRIS Hübner, 1825
OCHYRIA Hübner, 1825

91a0411 X. labradorensis (Packard, 1867) (Coremia) 7368
designata of authors; (not Hufnagel, 1767) (Phalaena) misappl.
emendata (Pearsall, 1914) (Gypsochroa)

91a0412 X. packardata McDunnough, 1945 (Xanthorhoe) 7369
gynandrata (Pearsall, 1914) (Gypsochroa)

91a0413 X. abrasaria (Herrich-Schäffer, [1855]) (Larentia)
extralim. H 7370
ssp. a. congregata (Walker, 1862) (Thera)
nigrofasciata (Packard, 1867) (Cidaria)
ssp. b. trilineata (Warren, 1904) (Lampropteryx)
salvata (Pearsall, 1913) (Petrophora)
ssp. c. aquilonaria Cassino & Swett, 1922 (Xanthorhoe)

91a0414 X. iduata (Guenée, [1858]) (Melanippe) 7371
fluctuata of authors; (not Linnaeus, 1758) (Phalaena) misappl.

planata Taylor, 1908 (Xanthorhoe)
91a0415 X. macdunnoughi Swett, 1918 (Xanthorhoe) 7372
91a0416 X. ramaria Swett & Cassino, 1920 (Xanthorhoe) 7373
91a0417 X. delectaria Cassino & Swett, 1920 (Xanthorhoe) [NEW]
NOTE: Raised from subspecies of *X. ramaria* to full species status by Schmidt & Anweiler (in Pohl et al. 2010; Appendix) based on subtle morphological and DNA differences.
91a0418 X. lagganata Swett & Cassino, 1920 (Xanthorhoe) [NEW]
NOTE: Nearctic populations, previously treated as belonging to *X. incursata*, were accorded species status by Schmidt & Anweiler (in Pohl et al. 2010; Appendix) based on genitalic differences between it and the European *X. incursata*.
harveyata Cassino & Swett, 1922 (Xanthorhoe)
incursata of authors; (not Hübner, [1813]) (Geometra) misappl. *[7374]*
91a0419 X. reclivisata Swett & Cassino, 1920 (Xanthorhoe) 7375
91a0420 X. baffinensis McDunnough, 1939 (Xanthorhoe) 7376
91a0421 X. algidata (Möschler, 1874) (Cidaria) 7378
dodata Swett & Cassino, 1920 (Xanthorhoe) *[7377]*
NOTE: Synonymized by Schmidt & Anweiler (in Pohl et al. 2010; Appendix).
91a0422 X. pontiaria Taylor, 1906 (Xanthorhoe) 7379
91a0423 X. fossaria Taylor, 1906 (Xanthorhoe) 7380
ssp. a. fossaria Taylor, 1906 (Xanthorhoe)
ssp. b. blackmorei Swett, 1918 (Xanthorhoe)
ssp. c. atlinensis Swett, 1918 (Xanthorhoe)
91a0424E X. montanata ([Denis & Schiffermüller], 1775) (Geometra) EXCL. 7381
NOTE: NA records of this Palaearctic species are erroneous. It probably crept into Ferguson (in Hodges et al. 1983) on the basis of a specimen from AK in the CNC that has since been redetermined as *X. pontiaria*. An unvouchered record for MB by Hanham (1901) is presumed to refer to another species of *Xanthorhoe*.
91a0425 X. marinensis McDunnough, 1945 (Xanthorhoe) 7382
91a0426 X. spaldingaria (Grossbeck, 1907) (Petrophora) 7383
91a0427 X. decoloraria (Esper, [1806]) (Phalaena) H [NEW]
NOTE: Previously known under the name *X. munitata*, Nearctic populations were synonymized with *X. decoloraria* by Scoble (1999).
ssp. a. decoloraria (Esper, [1806]) (Phalaena)
anticostiata (Strecker, 1899) (Ochyria)
collinaria (Metzner, 1846) (Cidaria)
fuluata (Fabricius, 1787) (Phalaena)
immediata (Grote, 1882) (Rheumaptera)
munitaria; (Boisduval, 1840) (Cidaria) emend.
munitata (Hübner, 1809) (Geometra) *[7384]*
pauperrimata (Christoph, 1888) (Cidaria)
strigata (Packard, 1867) (Cidaria)
ssp. b. convallaria (Guenée, [1858]) (Coremia)
ssp. c. nemorella Hulst, 1896 (Xanthorhoe)
illocata Hulst, 1896 (Xanthorhoe)
91a0428 X. alticolata Barnes & McDunnough, 1916 (Xanthorhoe) 7385
91a0429 X. defensaria (Guenée, [1858]) (Coremia) 7386
amorata (Hulst, 1900) (Hydriomena)
californiata (Packard, 1871) (Coremia)
conciliaria Swett, 1916 (Xanthorhoe)
gigantaria Swett, 1916 (Xanthorhoe)
mephistaria (Swett, 1915) (Petrophora)
suppuraria Swett, 1916 (Xanthorhoe)
thanataria Swett, 1916 (Xanthorhoe)
91a0430 X. offensaria McDunnough, 1941 (Xanthorhoe) 7387
91a0431 X. ferrugata (Clerck, 1759) (Phalaena) H 7388
ssp. a. ferrugata (Clerck, 1759) (Phalaena)
eximiata (Fuchs, 1905) (Larentia)
fuscata (Nordström, 1935) (Cidaria)
inclinataria (Walker, 1863) (Cidaria)
unidentaria (Haworth, 1809) (Geometra)
ssp. b. infumata Barnes & McDunnough, 1917 (Xanthorhoe)
ssp. c. alaskae Cassino & Swett, 1925 (Xanthorhoe)
91a0432 X. clarkeata Ferguson, 1987 (Xanthorhoe) [NEW]
91a0433 X. borealis Hulst, 1896 (Xanthorhoe) 7389
91a0434 X. lacustrata (Guenée, [1858]) (Melanippe) 7390
alternata (Walker, 1866) (Coremia)
91a0435 X. dentilinea Barnes & McDunnough, 1913 (Xanthorhoe) 7391
91a0436 X. mirabilata (Grote, 1883) (Petrophora) 7392
91a0437 X. columelloides Barnes & McDunnough, 1913 (Xanthorhoe) 7393

Genus ENCHORIA Hulst, 1896

91a0438 E. osculata Hulst, 1896 (Enchoria) 7402
91a0439 E. lacteata (Packard, 1876) (Ochyria) 7403
91a0440 E. herbicolata (Hulst, 1896) (Hydriomena) 7404

Genus LOXOFIDONIA Packard, 1876

91a0441 L. acidaliata (Packard, 1874) (Fidonia) 7405

Genus PSYCHOPHORA Kirby, 1824

91a0442 P. sabini Kirby, 1824 (Psychophora) H 7410
ssp. a. sabini Kirby, 1824 (Psychophora)
groenlandicaria (Bang-Haas, 1896) (Cidaria)
sabiniaria; (Packard, 1876) (Glaucopteryx) emend.
sabinii; Hulst, in: Dyar, [1903] (Psychophora) emend.
ssp. b. polaris Hulst, [1903] (Psychophora)
91a0443 P. phocata (Möschler, 1862) (Cidaria) 7411
91a0444 P. suttoni Heinrich, 1942 (Psychophora) 7412
91a0445 P. immaculata (Skinner & Mengel, 1892) (Glaucopteryx) 7413

Genus ORTHONAMA Hübner, 1825
NYCTEROSEA Hulst, 1896
PERCNOPTILOTA Hulst, 1896
PLEMYRIA Hübner, 1825

91a0446 O. obstipata (Fabricius, 1794) (Phalaena) C 7414
ssp. a. obstipata (Fabricius, 1794) (Phalaena)
albicinctata (Haworth, 1809) (Phalaena)
angustata (Haworth, 1809) (Phalaena)
baccata (Guenée, [1858]) (Camptogramma)
brunneipennis (Hulst, 1896) (Nycterosea)
discata (Warren, 1905) (Ochyria)
exagitata (Walker, 1862) (Camptogramma)
fluviata (Hübner, 1799) (Geometra)
gemmaria (Boisduval, 1840) (Larentia)
gemmata (Hübner, 1799) (Geometra)
inconspicua (Warren, 1896) (Ochyria)
intrusata (Walker, 1862) (Phibalapteryx)
lapillata (Guenée, [1858]) (Camptogramma)
marginata (Mathew, 1906) (Nycterosea)
mortuaria (Schaus, 1908) (Plemyria)
obruptata (Walker, 1863) (Coremia)
obsoleta (Mathew, 1906) (Nycterosea)
olivacea (Mathew, 1906) (Nycterosea)
peracutata (Walker, 1862) (Cidaria)
pigrata (Walker, 1866) (Coremia)
plemyrata (Felder & Rogenhofer, 1875) (Cidaria)
quaearendaria (Costa, [1850]) (Larentia)
signataria (Walker, 1863) (Camptogramma)
91a0447 O. evansi McDunnough, 1920 (Orthonama) 7415

Genus COSTACONVEXA Agenjo, 1949

91a0448 C. centrostrigaria (Wollaston, 1858) (Coremia) H 7416
custodiata of authors; (not Guenée, [1858]) (Eubolia) misappl.
interruptata (Rebel, 1894) (Cidaria)
latirupta (Walker, 1866) (Phibalapteryx)
luscinata (Zeller, 1873) (Cidaria)
mediata (Walker, 1862) (Phibalapteryx)
paranensis (Schaus, 1901) (Plemyria)

Genus HERRESHOFFIA Sperry, 1949
ID INFO: Sperry (1949).

91a0449 H. gracea Sperry, 1949 (Herreshoffia) 7418

Tribe CATACLYSMINI Herbulot, 1962

NOTE: Cataclysmini was separated from Xanthorhoini by Viidalepp (2006, 2011).

Genus ZENOPHLEPS Hulst, 1896

91a0450 Z. lignicolorata (Packard, 1874) (Coremia) 7406
ssp. a. lignicolorata (Packard, 1874) (Coremia)
ssp. b. victoria Taylor, 1906 (Zenophleps)
91a0451 Z. pallescens McDunnough, 1938 (Zenophleps) 7407
91a0452 Z. alpinata Cassino, 1927 (Zenophleps) 7408

rosa Cassino, 1927 (Zenophleps)
91a0453 Z. obscurata Hulst, 1896 (Zenophleps) 7409
ssp. a. obscurata Hulst, 1896 (Zenophleps)
ssp. b. infumata Barnes & McDunnough, 1917 (Zenophleps)

Tribe EPIRRHOINI Pierce, 1914

NOTE: Tribe resurrected by Brehm et al. (2019).

Genus EPIRRHOE Hübner, 1825

91a0454 E. alternata (Müller, 1764) (Phalaena) H 7394
ssp. a. alternata (Müller, 1764) (Phalaena)
aparinata Hübner, 1825 (Epirrhoe)
contristata (Donovan, 1811) (Phalaena)
degenerata (Haworth, 1809) (Phalaena)
sociata (Borkhausen, 1794) (Phalaena)
subtristata (Haworth, 1809) (Phalaena)
91a0455 E. plebeculata (Guenée, [1858]) (Coremia) 7395
ssp. a. plebeculata (Guenée, [1858]) (Coremia)
rubrosuffusata (Packard, 1871) (Cidaria)
ssp. b. vivida Barnes & McDunnough, 1917 (Epirrhoe)
91a0456 E. sperryi Herbulot, 1951 (Epirrhoe) 7396
NOTE: Historically treated under the Old World names *E. hastulata* and *E. tristata*.
hastulata of authors; (not Hübner, 1790) (Phalaena) misappl.
tristata of authors; (not Linnaeus, 1758) (Phalaena) misappl.
91a0457 E. medeifascia (Grossbeck, 1908) (Rheumaptera) 7397

Tribe LARENTIINI Duponchel, 1845

NOTE: Tribe resurrected by Viidalepp (2011), a result confirmed by Brehm et al. (2019).

Genus MESOLEUCA Hübner, 1825

91a0458 M. ruficillata (Guenée, [1858]) (Melanthia) 7307
91a0459 M. gratulata (Walker, 1862) (Melanthia) 7308
ssp. a. gratulata (Walker, 1862) (Melanthia)
bakeri Guedet, 1941 (Mesoleuca)
brunneicillata (Packard, 1874) (Melanthia)
ssp. b. latialbata Barnes & McDunnough, 1917 (Mesoleuca)

Genus SPARGANIA Guenée, 1857

NOTE: *Spargania* was transferred to the Larentiini by Hausmann & Viidalepp (2012).

91a0460 S. viridescens (Grossbeck, 1910) (Hydriomena) 7309
91a0461 S. aurata (Grote, 1882) (Glaucopteryx) 7310
daira (Druce, 1893) (Epirrhoe)
91a0462 S. bellipicta Warren, 1901 (Spargania) 7311
illustrata Barnes & McDunnough, 1917 (Spargania)
91a0463 S. magnoliata Guenée, [1858] (Spargania) 7312
ssp. a. magnoliata Guenée, [1858] (Spargania)
cumatilis (Grote & Robinson, 1867) (Coenocalpe)
incommodata (Walker, 1862) (Lobophora)
placidata (Walker, 1862) (Larentia)
ziczacata (Walker, 1862) (Larentia)
ssp. b. pernotata (Hulst, 1898) (Hydriomena)
ssp. c. quadripunctata (Packard, 1871) (Cidaria)
ssp. d. ruptata Barnes & McDunnough, 1917 (Spargania)
91a0464 S. luctuata ([Denis & Schiffermüller], 1775) (Geometra) H 7313
ssp. a. luctuata ([Denis & Schiffermüller], 1775) (Geometra)
albidior (Alphéraky, in: Romanoff, 1897) (Cidaria)
kodiakata (Packard, 1874) (Melanippe)
lugubrata (Staudinger, 1871) (Cidaria)
transversata (Thunberg, 1788) (Phalaena)
ssp. b. obductata (Möschler, 1860) (Cidaria)
concordata (Walker, 1862) (Melanippe)

Genus ANTICLEA Stephens, 1831

ID INFO: Rindge (1967).
EAROPHILA Gumppenberg, 1887
LAURENTIA Wright, 1916

91a0465 A. vasiliata Guenée, [1858] (Anticlea) 7329
niveifasciata (Hulst, [1901] 1900) (Mesoleuca)
rigidata (Walker, 1863) (Cidaria)
[illegible]ilosaria (Walker, 1860) (Macaria)
[illegible]saliata; [various, no date] (Anticlea) missp.
91a0466 A. multiferata (Walker, 1863) (Camptogramma) 7330
91a0467 A. switzeraria (Wright, 1916) (Laurentia) 7331
swettaria (Wright, 1916) (Laurentia)
91a0468 A. pectinata (Rindge, 1967) (Earophila) 7332

Tribe HYDRIOMENINI Meyrick, 1872

Genus HYDRIOMENA Hübner, 1825

ID INFO: McDunnough (1954).
CATOCLOTHIS Hulst, 1896
CYCLICA Grote, 1882
NOTE: Synonymized under *Hydriomena* by Brehm et al. (2019).
KARACIDARIA Matsumura, 1925
YPSIPETES Stephens, 1829

Hydriomena group I McDunnough, 1954

91a0469 H. tuolumne Barnes & McDunnough, 1917 (Hydriomena) 7222
91a0470 H. exculpata Barnes & McDunnough, 1917 (Hydriomena) 7223
ssp. a. exculpata Barnes & McDunnough, 1917 (Hydriomena)
tribulata Barnes & McDunnough, 1917 (Hydriomena)
ssp. b. josepha McDunnough, 1954 (Hydriomena)
ssp. c. nanata McDunnough, 1954 (Hydriomena)
91a0471 H. expurgata Barnes & McDunnough, 1918 (Hydriomena) 7224
ssp. a. expurgata Barnes & McDunnough, 1918 (Hydriomena)
ssp. b. franclemonti McDunnough, 1952 (Hydriomena)
ssp. c. nicolensis McDunnough, 1954 (Hydriomena)
ssp. d. alticola McDunnough, 1954 (Hydriomena)
91a0472 H. shasta Barnes & McDunnough, 1917 (Hydriomena) 7225
91a0473 H. borussata Barnes & McDunnough, 1918 (Hydriomena) 7226
brunneata; Barnes & McDunnough, 1918 (Hydriomena) missp.
91a0474 H. henshawi Swett, 1912 (Hydriomena) 7227
91a0475 H. irata Swett, 1910 (Hydriomena) 7228
ssp. a. irata Swett, 1910 (Hydriomena)
niveifascia Swett, 1916 (Hydriomena)
niveifasciata Swett, 1918 (Hydriomena)
ssp. b. lolata McDunnough, 1954 (Hydriomena)
ssp. c. quaesitata Barnes & McDunnough, 1918 (Hydriomena)
91a0476 H. perfracta Swett, 1910 (Hydriomena) 7229
ssp. a. perfracta Swett, 1910 (Hydriomena)
ssp. b. marmorata Barnes & McDunnough, 1917 (Hydriomena)
ssp. c. centralis McDunnough, 1952 (Hydriomena)
ssp. d. monoensis McDunnough, 1952 (Hydriomena)
91a0477 H. charlestonia McDunnough, 1954 (Hydriomena) 7230
91a0478 H. marinata Barnes & McDunnough, 1917 (Hydriomena) 7231
ssp. a. marinata Barnes & McDunnough, 1917 (Hydriomena)
ssp. b. exasperata Barnes & McDunnough, 1917 (Hydriomena)
91a0479 H. edenata Swett, 1909 (Hydriomena) 7232
ssp. a. edenata Swett, 1909 (Hydriomena)
ssp. b. prasinata McDunnough, 1954 (Hydriomena)
ssp. c. baueri McDunnough, 1954 (Hydriomena)
ssp. d. grandis Barnes & McDunnough, 1917 (Hydriomena)
ssp. e. olivata Wright, 1916 (Hydriomena)
ssp. f. pallidata Wright, 1916 (Hydriomena)
ssp. g. indistincta McDunnough, 1952 (Hydriomena)
91a0480 H. furtivata McDunnough, 1939 (Hydriomena) 7233
91a0481 H. johnstoni McDunnough, 1954 (Hydriomena) 7234
91a0482 H. divisaria (Walker, 1860) (Cleora) 7235
ssp. a. divisaria (Walker, 1860) (Cleora)
ssp. b. brunnescens McDunnough, 1954 (Hydriomena)

ssp. c. frigidata (Walker, [1863]) (Cidaria)
91a0483 H. renunciata (Walker, 1862) (Larentia) 7236
impluviata of authors; (not [Denis & Schiffermüller], 1775) (Geometra) misappl.
ssp. a. renunciata (Walker, 1862) (Larentia)
ssp. b. columbiata Taylor, 1906 (Hydriomena)
ssp. c. pernigrata Barnes & McDunnough, 1917 (Hydriomena)
ssp. d. viridescens McDunnough, 1954 (Hydriomena)
91a0484 H. transfigurata Swett, 1912 (Hydriomena) 7237
ssp. a. transfigurata Swett, 1912 (Hydriomena)
ssp. b. manitoba Barnes & McDunnough, 1917 (Hydriomena)
91a0485 H. bistriolata (Zeller, 1872) (Cidaria) 7238
91a0486 H. pluviata (Guenée, [1858]) (Ypsipetes) 7239
ssp. a. pluviata (Guenée, [1858]) (Ypsipetes)
ssp. b. meridianata McDunnough, 1954 (Hydriomena)
91a0487 H. obliquilinea Barnes & McDunnough, 1917 (Hydriomena) 7240
91a0488 H. rita McDunnough, 1954 (Hydriomena) 7241
91a0489 H. arizonata Barnes & McDunnough, 1917 (Hydriomena) 7242
91a0490 H. albimontanata McDunnough, 1939 (Hydriomena) 7243
91a0491 H. sierrae Barnes & McDunnough, 1917 (Hydriomena) 7244
91a0492 H. nevadae Barnes & McDunnough, 1917 (Hydriomena) 7245
91a0493 H. californiata (Packard, 1871) (Hypsipetes) 7246
91a0494 H. crokeri Swett, 1910 (Hydriomena) 7247
ssp. a. crokeri Swett, 1910 (Hydriomena)
ssp. b. comstocki McDunnough, 1944 (Hydriomena)
waltoni McDunnough, 1944 (Hydriomena)
91a0495 H. glaucata (Packard, 1874) (Cidaria) 7248
91a0496 H. muscata Barnes & McDunnough, 1917 (Hydriomena) 7249
91a0497 H. chiricahuata Swett, 1909 (Hydriomena) 7250
91a0498 H. modestata Barnes & McDunnough, 1917 (Hydriomena) 7251
91a0499 H. mississippiensis McDunnough, 1952 (Hydriomena) 7252
91a0500 H. feminata McDunnough, 1944 (Hydriomena) 7253
91a0501 H. ruberata (Freyer, [1831]) (Acidalia) extralim. H 7254
ssp. a. pallula McDunnough, 1944 (Hydriomena)
91a0502 H. macdunnoughi Swett, 1918 (Hydriomena) 7255
91a0503 H. septemberata McDunnough, 1952 (Hydriomena) 7256

Hydriomena group II McDunnough, 1954

91a0504 H. furcata (Thunberg, 1784) (Geometra) H 7257
ssp. a. furcata (Thunberg, 1784) (Geometra)
elutata (Hübner, 1799) (Geometra)
fuscoundata (Donovan, 1806) (Phalaena)
sordidata (Fabricius, 1794) (Phalaena)
ssp. b. fergusoni McDunnough, 1954 (Hydriomena)
91a0505 H. quinquefasciata (Packard, 1871) (Hypsipetes) 7258
periclata Swett, 1910 (Hydriomena)
viridata (Hulst, 1903) (Hypsipetes)
91a0506 H. catalinata McDunnough, 1943 (Hydriomena) 7259
91a0507 H. costipunctata Barnes & McDunnough, 1912 (Hydriomena) 7260

Hydriomena group III McDunnough, 1954

91a0508 H. albifasciata (Packard, 1874) (Hypsipetes) 7261
ssp. a. albifasciata (Packard, 1874) (Hypsipetes)
beldenae Guedet, 1941 (Hydriomena)
puncticaudata Barnes & McDunnough, 1917 (Hydriomena)
resecta Swett, 1910 (Hydriomena)
ssp. b. victoria Barnes & McDunnough, 1917 (Hydriomena)
ssp. c. reflata Grote, 1882 (Hydriomene [sic])
abacta (Hulst, 1898) (Mesoleuca)
91a0509 H. cochiseata Swett, 1909 (Hydriomena) 7262
cochizeata; Barnes & McDunnough, 1917 (Hydriomena) missp.
swetti Barnes & McDunnough, 1917 (Hydriomena)

Hydriomena group IV McDunnough, 1954

91a0510 H. speciosata (Packard, 1873) (Hypsipetes) 7263
agassizi Swett, 1910 (Hydriomena)
ameliata Swett, 1915 (Hydriomena)
taylori Swett, 1910 (Hydriomena)
91a0511 H. morosata Barnes & McDunnough, 1917 (Hydriomena) 7264
gravis McDunnough, 1954 (Hydriomena)
91a0512 H. barnesata Swett, 1909 (Hydriomena) 7265
91a0513 H. cyriadoides McDunnough, 1954 (Hydriomena) 7266
cyriades of authors; (not Druce, 1893) (Cidaria) misappl.
91a0514 H. sperryi McDunnough, 1952 (Hydriomena) 7267

Hydriomena group V McDunnough, 1954

91a0515 H. bryanti McDunnough, 1943 (Hydriomena) 7268
91a0516 H. clarki Wright, 1920 (Hydriomena) 7269

Hydriomena group VI McDunnough, 1954

91a0517 H. magnificata Taylor, 1906 (Hydriomena) 7270
91a0518 H. gracillima McDunnough, 1944 (Hydriomena) 7271

Hydriomena group VII McDunnough, 1954

91a0519 H. regulata Pearsall, 1909 (Hydriomena) 7272
91a0520 H. furculoides Barnes & McDunnough, 1917 (Hydriomena) 7273

Hydriomena group VIII McDunnough, 1954

91a0521 H. peratica Rindge, 1956 (Hydriomena) 7274
91a0522 H. similaris Hulst, 1896 (Hydriomena) 7275
ssp. a. similaris Hulst, 1896 (Hydriomena)
glenwoodata Swett, 1909 (Hydriomena)
ssp. b. terminipunctata Barnes & McDunnough, 1916 (Hydriomena)

Hydriomena group IX McDunnough, 1954

91a0523 H. nubilofasciata (Packard, 1871) (Hypsipetes) 7276
banavahrata Strecker, 1899 (Hydriomena)
cumulata Swett, 1910 (Hydriomena)
cupidata Swett, 1910 (Hydriomena)
raptata Swett, 1910 (Hydriomena)
scalata Warren, 1904 (Hydriomena)
sparsimacula Hulst, 1896 (Hydriomena)
vulnerata Swett, 1910 (Hydriomena)
91a0524 H. manzanita Taylor, 1906 (Hydriomena) 7277
91a0525 H. frondaria (Grote, 1882) (Cyclica) 7282
NOTE: Moved to *Hydriomena* with the synonymy of *Cyclica* by Brehm et al. (2019).

Genus HYMENODRIA McDunnough, 1954
ID INFO: McDunnough (1954).

91a0526 H. mediodentata (Barnes & McDunnough, 1911) (Hydriomene [sic]) 7278

Genus ERSEPHILA Hulst, 1896

91a0527 E. indistincta Hulst, 1898 (Ersephila) 7279
91a0528 E. grandipennis Hulst, 1896 (Ersephila) 7280

Genus CARPTIMA Pearsall, 1906

91a0529 C. hydriomenata Pearsall, 1906 (Carptima) 7281

Genus GROSSBECKIA Barnes & McDunnough, 1912

91a0530 G. semimaculata Barnes & McDunnough, 1912 (Grossbeckia) 7283

Genus MONOSTOECHA Fletcher, 1978
MONOTAXIS Hulst, 1895

91a0531 M. semipectinata (Hulst, 1898) (Monotaxis) 7289

Genus ENTEPHRIA Hübner, 1825
ID INFO: Troubridge (1997).
GLAUCOPTERYX Hübner, 1825
PHAESYLOIDES Bruand, 1847

TRICHOCHLAMYS Hulst, 1896

91a0532 E. aurata (Packard, 1867) (Cidaria) 7300
91a0533 E. beringiana Troubridge, 1997 (Entephria) H [NEW]
91a0534 E. bradorata (Munroe, 1951) (Dasyuris) [NEW]
aleutiata (Munroe, 1951) (Dasyuris)
91a0535 E. kidluitata (Munroe, 1951) (Dasyuris) [NEW]
91a0536 E. multivagata (Hulst, 1881) (Scotosia) 7301
caesiata of authors; (not [Denis & Schiffermüller], 1775) (Geometra) misappl.
nigrescens (Hulst, 1900) (Scotosia) [7304]
91a0537 E. takuata Taylor, 1908 (Entephria) 7302
91a0538 E. lagganata Taylor, 1908 (Entephria) 7303
91a0539 E. lynda Troubridge, 1997 (Entephria) [NEW]
91a0540 E. polata (Duponchel, 1830) (Larentia) H 7306
fumidotata (Walker, [1863]) (Larentia)
ursata (Munroe, 1951) (Dasyuris)
91a0541 E. punctipes (Curtis, 1835) (Oporabia) [NEW]
brullei (Lefèbvre, 1836) (Larentia)
91a0542 separata Troubridge, 1997 (Entephria) [NEW]

Genus "ENTEPHRIA" Hübner, 1825 PROV. PL.

91a0543 E. inventaraia (Grote, 1882) (Glaucopteryx) mispl. 7305
NOTE: This CA species was removed from the genus *Entephria* by Troubridge (1997), who stated that it did not obviously belong to any NA genus. Until this species can be studied, it is retained here as a provisional placement in "*Entephria*".

Tribe HETERUSIINI Warren, 1897

NOTE: Tribe recovered by Brehm et al. (2019).

Genus HETERUSIA Hübner, [1831]
SCORDYLIA Guenée, [1858]

91a0544 H. atalantata (Guenée, [1858]) (Scordylia) 7367

Tribe STAMNODINI Forbes, 1948

Genus EUTREPSIA Herrich-Schäffer, 1855
NOTE: This genus was previously placed in Hydriomenini but DNA and male genitalic structure indicate closer affinities to Stamnodini (new tribal placement).

91a0545 E. inconstans (Geyer, 1837) (Melanochroia) 7284
cephisaria (Grote, 1881) (Emplocia)

Genus STAMNODES Guenée, 1857
MARMOPTERYX Packard, 1874

91a0546 S. gibbicostata (Walker, 1862) (Cidaria) 7333
costinotata (Walker, 1863) (Larentia)
oeniformis (Harvey, 1874) (Larentia)
strigularia (Minot, 1869) (Anisopteryx)
91a0547 S. blackmorei Swett, 1915 (Stamnodes) 7334
91a0548 S. albiapicata Grossbeck, 1910 (Stamnodes) 7335
91a0549 S. reckseckeri Pearsall, 1910 (Stamnodes) 7336
NOTE: Pearsall apparently misinterpreted the spelling of the namesake for this species from the label of the type specimen. Proper spelling of the namesake is Ricksecker, which explains why some subsequent authors have misspelled the epithet. However, the species name stands as *reckseckeri*.
ricksecker; [various, no date] (Stamnodes) missp.
91a0550 S. affiliata Pearsall, 1911 (Stamnodes) 7337
91a0551 S. delicata (Grossbeck, 1908) (Coenocalpe) 7338
91a0552 S. mendocinoensis Dyar, 1923 (Stamnodes) 7339
91a0553 S. annellata (Hulst, 1887) (Marmopteryx) 7340
catastrophata Dyar, 1923 (Stamnodes)
gratificata Dyar, 1923 (Stamnodes)
91a0554 S. coenonymphata (Hulst, 1900) (Coenocalpe) 7341
brunneata Wright, 1924 (Stamnodes)
pallidata Wright, 1924 (Stamnodes)
prunata Wright, 1924 (Stamnodes)
wrightii Cassino & Swett, 1925 (Stamnodes)
91a0555 S. eldridgensis Swett, 1917 (Stamnodes) 7342
91a0556 S. marinata Wright, 1920 (Stamnodes) 7343
91a0557 S. splendorata Pearsall, 1909 (Stamnodes) 7344
91a0558 S. apollo Cassino, 1920 (Stamnodes) 7345
91a0559 S. artemis Rindge, 1958 (Stamnodes) 7346
91a0560 S. formosata (Strecker, 1878) (Marmopteryx) 7347
dryadata (Hulst, 1880) (Marmopteryx)
sponsata (Grote, 1882) (Marmopteryx)
91a0561 S. lampra Rindge, 1958 (Stamnodes) 7348
91a0562 S. topazata (Strecker, 1899) (Marmopteryx) 7349
ssp. a. topazata (Strecker, 1899) (Marmopteryx)
ssp. b. albida Barnes & McDunnough, 1912 (Stamnodes)
ssp. c. apicata Barnes & McDunnough, 1917 (Stamnodes)
ssp. d. arctica (Thierry-Mieg, 1911) (Fidonia)
91a0563 S. franckata (Pearsall, 1909) (Coenocalpe) 7350
91a0564 S. modocata Wright, 1920 (Stamnodes) 7351
91a0565 S. cassinoi Swett, 1917 (Stamnodes) 7352
91a0566 S. seiferti (Neumoegen, 1882) (Marmopteryx) 7353
91a0567 S. fervefactaria (Grote, 1881) (Emplocia) 7354
91a0568 S. deceptiva Barnes & McDunnough, 1918 (Stamnodes) 7355
91a0569 S. fergusoni Matson & Wagner, 2020 (Stamnodes) [NEW]
NOTE: A recent addition to the NA fauna by Matson & Wagner (2020).
91a0570 S. ululata Pearsall, 1912 (Stamnodes) 7359
91a0571 S. costimacula (Grossbeck, 1912) (Petrophora) 7360
ssp. a. costimacula (Grossbeck, 1912) (Petrophora)
kelseyi Wright, 1927 (Stamnodes)
ssp. b. pallula (McDunnough, 1941) (Stamnoctenis)
91a0572 S. similis Wright, 1927 (Stamnodes) 7361
91a0573 S. marmorata (Packard, 1871) (Tephrina) 7363
ssp. a. marmorata (Packard, 1871) (Tephrina)
ssp. b. odontata (Hulst, 1896) (Marmopteryx)
91a0574 S. tessellata (Packard, 1874) (Marmopteryx) 7364
91a0575 S. watsoni (Cassino, 1920) (Marmopteryx) 7365
91a0576 S. animata (Pearsall, 1906) (Marmopteryx) 7366

Genus STAMNOCTENIS Warren, 1901

91a0577 S. morrisata (Hulst, 1887) (Marmopteryx) 7356
volucer (Hulst, 1896) (Xanthorhoe)
91a0578 S. pearsalli (Swett, 1914) (Stamnodes) 7357
91a0579 S. rubrosuffusa (Grossbeck, 1912) (Petrophora) 7358
91a0580 S. vernon Guedet, 1939 (Stamnoctenis) 7362

[LARENTIINAE – Unplaced to Tribe]

NOTE: Õunap et al. (2019) determined that "*Perizoma" costiguttata* does not fit into any of the current Larentiine tribes, and that it is a sister group to a clade containing Asthenini and Eudulini.

Genus "PERIZOMA" (GROUP 2) Hübner, 1825 PROV. PL.
NOTE: The NA *Perizoma* include an assemblage of unrelated species groups, none of which are "true" *Perizoma* nor likely Perizomini. Õunap et al. (2019) moved "*Perizoma" custodiata* to the Euphyiini, where we have placed it in "*Perizoma*" (Group 1). We place the remaining Nearctic *Perizoma* species (after removal of those species now assigned to *Martania*) here with *P. costiguttata* pending further work.

91a0581 P. actuata (Pearsall, 1909) (Mesoleuca) mispl. 7319
91a0582 P. oxygramma (Hulst, 1896) (Coenocalpe) mispl. 7323
tahoensis Barnes & McDunnough, 1916 (Perizoma)
91a0583 P. curvilinea (Hulst, 1896) (Hydriomena) mispl. 7324
ssp. a. curvilinea (Hulst, 1896) (Hydriomena)
occidens (Hulst, 1898) (Hydriomena)
ssp. b. foxi (Wright, 1924) (Venusia)
91a0584 P. costiguttata (Hulst, 1896) (Hydriomena) mispl. 7325
91a0585 P. epictata Barnes & McDunnough, 1916 (Perizoma) mispl. 7326
91a0586 P. ablata (Hulst, 1896) (Hydriomena) ident. uncert. 7327
NOTE: This is an unknown species, most recently placed in *Perizoma* by Scoble (1999). The type may be lost as it is not among the Hulst types at AMNH.

Genus "EUPHYIA" Hübner, 1825 PROV. PL.
NOTE: Based on DNA barcodes and morphology, *implicata* and *minima* are not congeneric with *Euphyia*. The generic and tribal placement is currently not known.

91a0587 E. implicata (Guenée, [1858]) (Larentia) mispl. 7400
ssp. a. implicata (Guenée, [1858]) (Larentia)
ssp. b. multilineata (Packard, 1871) (Cidaria)
williamsi (Swett, 1910) (Mesoleuca)
ssp. c. grandiosa (Hulst, 1898) (Hydriomena)
91a0588 E. minima [Cassino & Swett], 1922 (Euphyia) mispl. 7401

Genus "LITHOSTEGE" Hübner, 1825 PROV. PL.
NOTE: None of the NA species placed in this genus are congeneric with the European type-species of the genus, and are likely also misplaced in the Trichopterygini.

91a0589 L. rotundata Packard, 1874 (Lithostege) mispl. 7628
arizonata Grote, 1883 (Lithostege)

91a0590 L. marcata Barnes & McDunnough, 1916 (Lithostege) mispl. 7630
91a0591 L. deserticola Barnes & McDunnough, 1916 (Lithostege) mispl. 7633

Genus SCELIDACANTHA Hulst, 1896
NOTE: The taxa *fuscata* (n. comb.), *elegans* (n. comb.), and *angelicata* are here transferred from *Lithostege* to *Scelidacantha* (n. comb.) based on DNA sequence similarity and shared external and genitalic morphology.

91a0592 S. triseriata (Packard, 1874) (Lithostege) 7634
virginata (Graef, 1881) (Lithostege)
91a0593 S. fuscata (Grossbeck, 1906) (Eucestia) N. COMB. 7629
91a0594 S. elegans (Grossbeck, 1909) (Coenocalpe) N. COMB. 7631
91a0595 S. angelicata (Dyar, 1923) (Lithostege) N. COMB. 7632

Subfamily ARCHIEARINAE Fletcher, 1953

Genus ARCHIEARIS Hübner, 1821

Subgenus ARCHIEARIS Hübner, 1821
ID INFO: McGuffin (1988).
BREPHOS Hübner, 1806
CATOXANTHIA Sodoffsky, 1837

91a0596 A. infans (Möschler, 1862) (Brephos) 6256
ssp. a. infans (Möschler, 1862) (Brephos)
hamadryas (Harris, 1869) (Brephos)
ssp. b. oregonensis (Swett, 1917) (Brephos)

Subgenus BOUDINOTIANA Leraut, 2002 (excl.)

91a0597E A. hodeberti (Leraut, 2002) (Boudinotiana) EXCL. [NEW]
NOTE: Described from Asian material that was mistakenly attributed to Labrador (NL) in NA (Don Lafontaine, pers. comm.; 2013). Belyaev (in Leley, ed. 2016) placed *Boudinotiana* as a subgenus of *Archiearis*, and further reports that *hodeberti* is indistinguishable from *Archiearis (Boudinotiana) notha suifunensis* (Kardakoff, 1928) but does not make a formal synonymy. We retain *hodeberti* as a separate species pending further research.

Genus LEUCOBREPHOS Grote, 1874
ID INFO: McGuffin (1988).

91a0598 L. brephoides (Walker, 1857) (Anarta) 6257
hoyi (Grote, 1880) (Melicleptria)
middendorfi of authors; (not Ménétriés, 1858) (Amphidasis) misappl.
resoluta (Zeller, 1863) (Archiearis)

Subfamily DESMOBATHRINAE Meyrick, 1886

Tribe DESMOBATHRINI Meyrick, 1886

Genus ZANCLOPTERYX Herrich-Schäffer, [1855]
GASMARA Walker, [1863]

91a0599 Z. mexicana Prout, 1910 (Zanclopteryx) [NEW]
NOTE: Added to the NA fauna by Covell (2013); it was overlooked by Pohl et al. (2016). Systematic placement follows Brehm et al. (2019).

Subfamily GEOMETRINAE [Leach, 1815]
NOTE: Tribal classification follows Ban et al. (2018).

Tribe NEMORIINI Gumppenberg, 1887
NOTE: Synchlorini Ferguson, 1969 was found to be a junior synonym to Nemorini by Murillo-Ramos et al. (2019).

Genus CHLOROSEA Packard, 1873

91a0600 C. nevadaria Packard, 1873 (Chlorosea) 7012
proutaria Pearsall, 1911 (Chlorosea)
91a0601 C. banksaria Sperry, 1944 (Chlorosea) 7013
ssp. a. banksaria Sperry, 1944 (Chlorosea)
ssp. b. gracearia Sperry, 1946 (Chlorosea)
91a0602 C. margaretaria Sperry, 1944 (Chlorosea) 7014
91a0603 C. roseitacta Prout, 1912 (Chlorosea) 7015

Genus NEMORIA Hübner, 1818
NOTE: Brehm et al. (2019) suggested that *Nemoria* is not monophyletic.
ANAPLODES Packard, 1876
ANNEMORIA Packard, 1876
APLODES Guenée, [1858]
EUNEMORIA Packard, 1873
HIPPARCHISCUS Walsh, 1864
RACHEOSPILA Guenée, [1858]

91a0604 N. pulcherrima (Barnes & McDunnough, 1916) (Chlorosea) 7016
naidaria (Swett, 1916) (Chlorosea)
91a0605 N. mutaticolor Prout, 1912 (Nemoria) 7017
91a0606 N. unitaria (Packard, 1873) (Eunemoria) 7018
hudsonaria (Taylor, 1906) (Aplodes)
junctolinearia (Graef, 1881) (Aplodes)
unilinearia (Taylor, 1908) (Aplodes)
91a0607 N. latirosaria (Pearsall, 1906) (Aplodes) 7019
91a0608 N. arizonaria (Grote, 1883) (Aplodes) 7021
aemularia Barnes & McDunnough, 1918 (Nemoria) [7020]
olivearia Cassino, 1927 (Nemoria)
91a0609 N. daedalea Ferguson, 1969 (Nemoria) 7022
91a0610 N. viridicaria (Hulst, 1880) (Aplodes) 7023
ssp. a. viridicaria (Hulst, 1880) (Aplodes)
ssp. b. perversicolor Ferguson, 1985 (Nemoria)
91a0611 N. subsequens Ferguson, 1969 (Nemoria) 7024
91a0612 N. diamesa Ferguson, 1969 (Nemoria) 7025
91a0613 N. albaria (Grote, 1883) (Chlorosea) 7026
91a0614 N. pistaciaria (Packard, 1876) (Aplodes) 7027
unistrigata (Gumppenberg, 1895) (Eucrostis)
91a0615 N. extremaria (Walker, 1861) (Racheospila) 7028
91a0616 N. elfa Ferguson, 1969 (Nemoria) 7029
91a0617 N. tuscarora Ferguson, 1969 (Nemoria) 7030
91a0618 N. catachloa (Hulst, 1898) (Aplodes) 7031
91a0619 N. outina Ferguson, 1969 (Nemoria) 7032
91a0620 N. lixaria (Guenée, [1858]) (Racheospila) 7033
associaria (Barnes & McDunnough, 1917) (Racheospila)
inclusaria (Walker, 1861) (Geometra)
knobelaria (Cassino, 1927) (Racheospila)
texana (Hulst, 1898) (Synchlora)
91a0621 N. saturiba Ferguson, 1969 (Nemoria) 7034
91a0622 N. darwiniata (Dyar, 1904) (Aplodes) 7035
ssp. a. darwiniata (Dyar, 1904) (Aplodes)
mentastii Guedet, 1941 (Nemoria)
oregonensis Cassino, 1927 (Nemoria)
ssp. b. punctularia Barnes & McDunnough, 1918 (Nemoria)
californica Prout, 1932 (Nemoria)
91a0623 N. zelotes Ferguson, 1969 (Nemoria) 7036
91a0624 N. obliqua (Hulst, 1898) (Aplodes) 7037
ssp. a. obliqua (Hulst, 1898) (Aplodes)
bellonaria (Strecker, 1899) (Geometra)
ssp. b. hennei (Sperry, 1953) (Racheospila)
91a0625 N. splendidaria (Grossbeck, 1910) (Aplodes) 7038
91a0626 N. strigataria (Grossbeck, 1910) (Aplodes) 7039
91a0627 N. zygotaria (Hulst, 1886) (Aplodes) 7040
91a0628 N. leptalea Ferguson, 1969 (Nemoria) 7041
delicataria (Dyar, 1908) (Anaplodes)
91a0629 N. caerulescens Prout, 1912 (Nemoria) 7042
91a0630 N. intensaria (Pearsall, 1911) (Aplodes) 7043
91a0631 N. festaria (Hulst, 1886) (Anaplodes) 7044
91a0632 N. yellowrosea Koçak & Kemal, 2008 (Nemoria) [NEW]
NOTE: Koçak & Kemal (2008) proposed the name *N. yellowrosea* as an objective replacement for *Nemoria albilineata* Cassino, 1927, a junior homonym of *Nemoria albilineata* Warren, 1909 (but note distinction from *Synchlora aerata albolineata* Packard, 1873).
albilineata Cassino, 1927 (Nemoria) preocc. [7044.1]
91a0633 N. bifilata (Walker, [1863]) (Anisodes) 7045
ssp. a. bifilata (Walker, [1863]) (Anisodes)
abdominaria (Barnes & McDunnough, 1917) (Racheospila)
ssp. b. planuscula Ferguson, 1969 (Nemoria)
91a0634 N. bistriaria Hübner, 1818 (Nemoria) 7046
ssp. a. bistriaria Hübner, 1818 (Nemoria)
brunnearia (Packard, 1876) (Aplodes)
rubrolinearia (Packard, 1873) (Aplodes)
ssp. b. siccifolia (Fitch, 1857) (Geometra)
rubromarginaria (Packard, 1876) (Aplodes)
91a0635 N. rubrifrontaria (Packard, 1873) (Racheospila) 7047
packardaria (Grote, 1882) (Aplodes)
91a0636 N. mimosaria (Guenée, [1858]) (Aplodes) 7048
approximaria (Packard, 1873) (Aplodes)

coniferaria (Packard, 1884) (Aplodes)
latiaria (Packard, 1873) (Aplodes)
tractaria (Walker, 1861) (Iodis)
venustus (Walsh, 1864) (Hipparchiscus)

91a0637 N. glaucomarginaria (Barnes & McDunnough, 1917) (Racheospila) 7049

91a0638 N. rindgei Ferguson, 1969 (Nemoria) 7050

Genus PHRUDOCENTRA Warren, 1895

MELOCHLORA Warren, 1901
NESIPOLA Warren, 1909

91a0639 P. centrifugaria (Herrich-Schäffer, 1870) (Geometra) 7051

anomalaria (Möschler, 1890) (Racheospila)
heterospila (Hampson, 1904) (Euchloris)
hollandaria (Hulst, 1886) (Eucrostis)
jaspidiaria (Hulst, 1886) (Eucrostis)
protractaria (Herrich-Schäffer, 1870) (Geometra)
viridipurpurea (Hulst, 1898) (Synchlora)

91a0640 P. neis (Druce, 1892) (Tachyphyle) 7052

Genus DICHORDA Warren, 1900

91a0641 D. iridaria (Guenée, [1858]) (Geometra) 7053
ssp. a. iridaria (Guenée, [1858]) (Geometra)
ssp. b. remotaria (Walker, 1861) (Geometra)
latipennis (Hulst, 1898) (Slossonia)

91a0642 D. consequaria (Edwards, 1884) (Geometra) 7054
perpendiculata Warren, 1904 (Dichorda)

91a0643 D. illustraria (Hulst, 1886) (Geometra) 7055

91a0644 D. rectaria (Grote, 1877) (Geometra) 7056
ssp. a. rectaria (Grote, 1877) (Geometra)
ssp. b. cockerelli Sperry, 1939 (Dichorda)

Genus SYNCHLORA Guenée, 1857

CHETEOSCELIS Prout, 1912
EUNEMORIA Packard, 1873
MEROCHLORA Prout, 1912

91a0645 S. aerata (Fabricius, 1798) (Phalaena) 7058
ssp. a. aerata (Fabricius, 1798) (Phalaena)
glaucaria (Guenée, [1858]) (Aplodes)
gracilaria (Packard, 1873) (Eunemoria)
mimicata (Walker, 1866) (Geometra)
rubivora (Riley, 1869) (Aplodes)
rubivoraria; Packard, 1876 (Synchlora) emend.
rubrifrontaria Packard, 1873 (Synchlora)
ssp. b. albolineata Packard, 1873 (Synchlora)
albolinearia; Packard, 1876 (Synchlora) emend.
ssp. c. liquoraria Guenée, [1858] (Synchlora)
tricoloraria (Packard, 1874) (Eunemoria)

91a0646 S. frondaria Guenée, [1858] (Synchlora) 7059
ssp. a. frondaria Guenée, [1858] (Synchlora)
albicostaria (Herrich-Schäffer, 1870) (Eucrostis)
denticularia (Walker, 1861) (Nemoria)
excurvaria Packard, 1873 (Synchlora)
minuata (Walker, 1866) (Thalera)
pallida (Warren, 1900) (Aplodes)
ssp. b. avidaria Pearsall, 1917 (Synchlora)

91a0647 S. gerularia Hübner, [1823] (Synchlora) 7060.1
jucunda (Felder, 1875) (Racheospila)
marginiplaga (Walker, 1861) (Racheospila)
ocellata (Stoll, 1791) (Phalaena)
rufidorsaria (Snellen, 1874) (Racheospila)
stollaria (Guenée, [1858]) (Phorodesma)

91a0648 S. xysteraria (Hulst, 1886) (Racheospila) 7060

91a0649 S. herbaria (Fabricius, 1794) (Phalaena) 7061
congruata (Walker, 1861) (Geometra)
hulstiana Dyar, 1901 (Synchlora)
sitellaria (Guenée, [1858]) (Racheospila)

91a0650 S. irregularia (Barnes & McDunnough, 1918) (Racheospila) 7062

91a0651 S. noel (Sperry, 1949) (Racheospila) 7063

91a0652 S. cupedinaria (Grote, 1880) (Racheospila) 7064
louisa Hulst, 1898 (Synchlora)

91a0653 S. bistriaria (Packard, 1876) (Chlorosea) 7065
clareki (Sperry, 1939) (Cheteoscelis)
undinaria (Strecker, 1878) (Aplodes)

91a0654 S. pectinaria (Grossbeck, 1910) (Annemoria) 7066

91a0655 S. faseolaria (Guenée, [1858]) (Nemoria) 7067
perviridaria (Packard, 1876) (Chlorosea)

91a0656 S. graefiaria (Hulst, 1886) (Chlorosea) 7068
eutraphes (Prout, 1912) (Cheteoscelis)

Tribe DICHORDOPHORINI Ferguson, 1969

NOTE: Brehm et al. (2019) treated the genus *Dichordophora* as unplaced in the Geometrinae, but we use the tribe described for it by Ferguson (1969).

Genus DICHORDOPHORA Prout, 1912

91a0657 D. phoenix (Prout, 1912) (Dichorda) 7057

Tribe HEMITHEINI Bruand, 1846

Subtribe LOPHOCHORISTINA Ferguson, 1969

NOTE: Treated as a subtribe of Hemitheini by Brehm et al. (2019), rather than as a full tribe.

Genus LOPHOCHORISTA Warren, 1904

91a0658 L. lesteraria (Grossbeck, 1910) (Synchlora) 7069

Genus EUEANA Prout, 1912

91a0659 E. niveociliaria (Herrich-Schäffer, 1870) (Eucrostis) 7070
saltusaria (Hulst, 1886) (Eucrostis)

Genus EUCROSTES Hübner, [1823]

91a0660 E. dominicaria (Guenée, [1858]) (Eucrostis) STRAY [NEW]

NOTE: Reported as a stray in FL by Heppner (2007).

Subtribe HEMITHEINA Bruand, 1846

NOTE: Treated as a subtribe of Hemitheini by Brehm et al. (2019), rather than as a full tribe.

Genus CHLOROCHLAMYS Hulst, 1896

91a0661 C. chloroleucaria (Guenée, [1858]) (Nemoria) 7071
densaria (Walker, 1863) (Nemoria)
deprivata (Walker, 1863) (Thalassodes)
desolataria (Herrich-Schäffer, 1870) (Geometra)
flavilineata (Riley, 1870) (Aplodes)
indiscriminata (Walker, 1863) (Nemoria)
rectilinea (Zeller, 1872) (Eucrostis)

91a0662 C. triangularis Prout, 1912 (Chlorochlamys) 7072

91a0663 C. appellaria Pearsall, 1911 (Chlorochlamys) 7073
hesperia Sperry, 1951 (Chlorochlamys)
rubromediaria Cassino & Swett, 1925 (Chlorochlamys)

91a0664 C. phyllinaria (Zeller, 1872) (Eucrostis) 7074
curvifera Prout, 1912 (Chlorochlamys)
fletcheraria Sperry, 1949 (Chlorochlamys)
vertaria Pearsall, 1908 (Chlorochlamys)
zelleraria (Packard, 1876) (Eucrostis)

Genus CHLOROPTERYX Hulst, 1896

91a0665 C. tepperaria (Hulst, 1886) (Nemoria) 7075

91a0666 C. nordicaria (Schaus, 1901) (Gelasma) 7076

91a0667 C. paularia (Möschler, 1886) (Nemoria) 7077
punctata (Warren, 1904) (Aplodes)

Genus XEROCHLORA Ferguson, 1969

91a0668 X. viridipallens (Hulst, 1896) (Synchlora) 7078
volantaria (Pearsall, 1906) (Chlorochlamys)

91a0669 X. inveterascaria (Swett, 1907) (Chlorochlamys) 7079

91a0670 X. martinaria (Sperry, 1948) (Chlorochlamys) 7080

91a0671 X. masonaria (Schaus, 1897) (Nemoria) 7081
hyperalla (Prout, 1933) (Chlorochlamys)

91a0672 X. mesotheides Ferguson, 1969 (Xerochlora) 7082

Genus HEMITHEA Duponchel, 1829

91a0673 H. aestivaria (Hübner, [1799]) (Geometra) I 7083
NOTE: Introduced from Eurasia, first found in NA in BC in 1973 (not 1978 as reported by some authors), and in eastern Canada in 2019 (Schmidt & Anctil 2021).
alboundulata (Hedemann, 1879) (Nemoria)
herbacea (Fourcroy, 1785) (Phalaena)
strigata (Müller, 1764) (Phalaena)

viridescentaria (Motschulsky, [1861]) (Geometrina)

Genus THALERA Hübner, [1823]
CHLOROCHROMA Duponchel, 1845
HETHEMIA Ferguson, 1969
NOTE: Ban et al. (2018) found that the monotypic genus *Hethemia* was contained within *Thalera*.

91a0674 T. pistasciaria (Guenée, [1858]) (Nemoria) 7084
ssp. a. pistasciaria (Guenée, [1858]) (Nemoria)
dyarii (Hulst, 1900) (Nemoria)
euchloraria (Guenée, [1858]) (Iodis)
gratata (Packard, 1876) (Nemoria)
subcroceata (Walker, 1862) (Nemoria)
superata Walker, 1866 (Thalera)
ssp. b. insecutata (Walker, [1863]) (Acidalia)
auranticolorata (Strecker, 1899) (Nemoria)

Genus MESOTHEA Warren, 1901
CHLOROCHROMA Gumppenberg, 1845

91a0675 M. incertata (Walker, [1863]) (Nemoria) 7085
ssp. a. incertata (Walker, [1863]) (Nemoria)
oporaria (Zeller, 1872) (Nemoria)
ssp. b. viridipennata (Hulst, 1896) (Eucrostis)
marinaria (Strecker, 1899) (Thamnonoma)

Subfamily ENNOMINAE Duponchel, [1845]

NOTE: The tribal classification of Brehm et al. (2019) is followed here. However, since the topology of the Ennominae remains incompletely resolved, we maintain an approximation of the previous tribal order except where changes are dictated by strongly supported phylogenetic relationships.

Tribe ABRAXINI Warren, 1893

ID INFO: Ferguson (2008).

Genus LIGDIA Guenée, 1857

91a0676 L. wagneri Ferguson & Adams, 2008 (Ligdia) [NEW]

Tribe CASSYMINI Holloway, 1994

ID INFO: Ferguson (2008).

Genus TAENIOGRAMMA Dognin, 1914
PROPHASIANE McDunnough, 1939
XENOECISTA Warren, 1897

91a0677 T. quadrilinea (Schaus, 1901) (Cataspilates) [NEW]
quadrifasciata (Taylor, 1906) (Macaria) *[6359]*
91a0678 T. octolineata (Hulst, 1887) (Semiothisa) 6423
91a0679 T. mendicata (Hulst, 1887) (Semiothisa) 6424
91a0680 T. tenebrosata (Hulst, 1887) (Semiothisa) 6425

Genus PROTITAME McDunnough, 1939

91a0681 P. virginalis (Hulst, [1901] 1900) (Cymatophora) 6270
albescens McDunnough, 1939 (Protitame) *[6269]*
discalis McDunnough, 1939 (Protitame) *[6268]*
hulstaria; Bowman, 1951 (Protitame) missp.
hulstiaria (Taylor, 1906) (Diastictis) *[6267]*
91a0682 P. subalbaria (Packard, 1873) (Acidalia) 6266
matilda (Dyar, 1904) (Cymatophora) *[6265]*
pallicolor (Dyar, 1923) (Phasiane) *[6271]*
91a0683 P. cervula (Rindge, 1958) (Sperrya) 6422

Tribe MACARIINI Guenée, [1858]

ID INFO (partial): Ferguson (2008).

Genus EUASPILATES Packard, 1874
NOTE: This monotypic NA genus was previously placed among other genera of uncertain affinity in the Ourapterygini Bruand, 1846, by Ferguson (in Hodges et al. 1983), i.e. Ennomini in the current concept (Brehm et al. 2019). Despite the somewhat atypical wing pattern, examination of DNA barcode variation, genitalic structure and external morphology corroborate placement in the Macariini, and the genus is here transferred to this tribe. Its placement at the beginning of the tribe is arbitrary since its relationship to other macariine genera has not been studied.

91a0684 E. spinataria Packard, 1874 (Euaspilates) 6917

Genus DASYFIDONIA Packard, 1876
NOTE: Transferred from Boarmiini to Macariini based on the molecular phylogeny results of Brehm et al. (2019), which resolves *Dasyfidonia avuncularia* as a strongly supported sister group to *Isturgia dislocaria* (Macariini). The genitalic morphology and wing pattern corroborates placement in the Macariini.

91a0685 D. avuncularia (Guenée, [1858]) (Fidonia) 6426
91a0686 D. macdunnoughi Guedet, 1935 (Dasyfidonia) 6427

Genus HELIOMATA Grote & Robinson, 1866

91a0687 H. cycladata Grote & Robinson, 1866 (Heliomata) 6261
fulliola Barnes & McDunnough, 1917 (Heliomata) *[6262]*
91a0688 H. scintillata Ferguson, 2008 (Heliomata) [NEW]
91a0689 H. infulata (Grote, 1863) (Baptria) 6263
elaborata (Grote, 1863) (Baptria) *[6264]*

Genus ISTURGIA Hübner, 1823

91a0690 I. dislocaria (Packard, 1876) (Semiothisa) 6419
malefactaria (Barnes & McDunnough, 1917) (Phasiane)
NOTE: Ferguson (2008) did not formally synonymize this subspecific name, but considered it "a further extreme of the pale West Texas form", and that treating it as a subspecies "ignores the fact that other populations, such as those of FL and west TX are equally distinctive". We treat it here as a synonym.

Genus EUMACARIA Packard, 1873

91a0691 E. madopata (Guenée, [1858]) (Macaria) [NEW]
brunneata (Packard, 1873) (Macaria)
latiferrugata (Walker, [1863]) (Macaria) *[6272]*

Genus MELLILLA Grote, 1873
ID INFO: Ferguson (2008).
GONILYTHRIA Gumppenburg, 1887

91a0692 M. xanthometata (Walker, 1862) (Fidonia) 6322
chamaechrysaria Grote, 1873 (Mellilla)
rilevaria (Packard, 1876) (Lythria)
snoviaria (Packard, 1876) (Lythria)

Genus TRIGRAMMIA Herrich-Schäffer, [1855]
ID INFO: Ferguson (2008).

91a0693 T. quadrinotaria Herrich-Schäffer, [1855] (Trigrammia) 6360
determinataria (Walker, 1863) (Macaria)
quadriguttaria (Walker, 1861) (Macaria)
septemfluaria (Grote, 1881) (Deilinia)
septemlinearia (Grote, 1882) (Deilinia)

Genus PSAMATODES Guenée, 1857
ID INFO: Ferguson (2008).

Psamatodes pallidata group Ferguson, 2008

91a0694 P. pallidata (Warren, 1897) (Xenoecista) [NEW]
trimaculata (Warren, 1906) (Macaria) *[6354]*
91a0695 P. atrimacularia (Barnes & McDunnough, 1913) (Macaria) [NEW]
91a0696 P. rectilineata (Warren, 1900) (Tephrinopsis) [NEW]
fragilis (Warren, 1904) (Tephrinopsis)

Psamatodes abydata group Ferguson, 2008

91a0697 P. abydata (Guenée, [1858]) (Macaria) [NEW]
punctolineata (Packard, 1873) (Macaria) *[6332]*
simulata (Hulst, 1887) (Semiothisa)
91a0698 P. trientata (Herrich-Schäffer, 1870) (Macaria) [NEW]
91a0699 P. everiata (Guenée, [1858]) (Macaria) extralim. [NEW]
ssp. a. errata (McDunnough, 1939) (Semiothisa) [6333]

Genus MACARIA Curtis, 1826

ID INFO: Ferguson (2008).

NOTE: The composition of *Macaria* presented here differs from that of Ferguson (2008) in that we include *Speranza* and *Epelis* as junior synonyms, following Sihvonen & Skou (2015) and based on the results of Scoble (1999) and Scoble & Krüger (2002). *Speranza* as defined by Ferguson (2008) is paraphyletic (based on prelimnary molecular phylogenetic results; BCS), and the New World (particularly Neotropical) genera require review. The genus *Letispe* Ferguson is also provisionally considered a synonym of *Macaria* (syn. nov.), as discussed in the *Macaria metanemaria* account below.

ACADRA Herrich-Schäffer, 1854
CATASTICTIS Gumppenberg, 1887
DYSMIGIA Warren, 1895
ELPISTE Gumppenberg, 1887
EPELIS Hulst, 1896
EUFITCHIA Packard, 1876
EUTROPIA Hübner, 1827
GLADELA Grossbeck, 1909
GODONELA Boisduval, 1840
GRAMMATOPHORA Stephens, 1829
HALIA Duponchel, 1829
LETISPE Ferguson, 2008 N. SYN.

NOTE: See the *Macaria metanemaria* account below.

LIGDIFORMIA Wehrli, 1937
PHILOBIA Duponchel, 1829
PHYSOSTEGANIA Warren, 1894
PROUTICTIS Bryk, 1938
SCIAGRAPHIA Hulst, 1896
SPERANZA Curtis, 1828

NOTE: Ferguson (2008) resurrected the genus *Speranza* for a group of NA Macariines based on a set of unique ecological and morphological characters. However, Scoble & Krüger (2002) found that these characters did not segregate into two clades when considering the Macariini on a global scale. Considering this, Sihvonen & Skou (2015) treated *Speranza* as a junior synonym of *Macaria*. Further, recent phylogenetic analysis (Brehm et al. 2019) places the type species of *Speranza* (*Macaria brunneata*) within a clade of typical *Macaria*.

SYMPHERTA Hulst, 1886
THAMNONOMA Lederer, 1853
THYRIDESIA Wehrli, 1940

[Macaria – ungrouped 1]

91a0700 M. truncataria (Walker, 1862) (Fidonia) 6321

NOTE: Previously placed in *Epelis*; see note under genus *Macaria*.

Macaria varadaria group (new composition); not Ferguson, 2008

NOTE: Composition of this group has been modified since Ferguson (2008), see note under *M. metanemaria* below.

91a0701 M. varadaria (Walker, 1860) (Caberodes) 6314
abbreviata (Walker, 1863) (Aspilates)
donataria (Walker, 1863) (Aspilates)
florida (Hulst, 1896) (Diastictis)
inaptata Walker, 1861 (Macaria)

91a0702 M. marcescaria (Guenée, [1858]) (Halia) 6323
cineraria (Packard, 1871) (Halia)

91a0703 M. metanemaria (Hulst, 1887) (Semiothisa) N. COMB. 6325

NOTE: Ferguson (2008) separated *M. metanemaria* from the remainder of formerly-associated species, i.e. the *Macaria varadaria* group (*Speranza varadaria* group in the sense of Ferguson (2008), comprising the genus *Elpiste* prior to that) based on differences in male genitalia. However, molecular data confirm a close relationship between *metanemaria* and *marcescaria*. Furthermore, *metanemaria* feeds on *Baccharis* spp. (Asteraceae), as do species of the *varadaria* group, the only macariines known to do so (Ferguson 2008). The monotypic genus *Letispe* (type species: *metanemaria*) is therefore placed into synonymy with *Macaria* (n. syn.), and its constituent taxa *metanemaria* and its synonym *castalia* are transferred to *Macaria* (n. comb.).

castalia (Druce, 1893) (Semiothisa)

Macaria brunneata group Ferguson, 2008

91a0704 M. brunneata (Thunberg, 1784) (Geometra) H 6286
ssp. a. brunneata (Thunberg, 1784) (Geometra)
coreame (Bryk, 1949) (Itame)
ferruginaria (Packard, 1873) (Eupistheria)
flammata (Fabricius, 1794) (Phalaena)
fulvaria (Villers, 1789) (Phalaena)
pinetaria (Hübner, 1799) (Geometra)
quinquaria (Hübner, 1822) (Geometra)
sylvaria (Curtis, 1828) (Speranza)

91a0705 M. inextricata Walker, 1861 (Macaria) 6285

NOTE: Forbes (1948) listed this species as "*Itame inceptaria* of authors", and noted that the type is actually a synonym of the erebid species *Phalaenostola metonalis*. Forbes (1954) attributed these records to *S. inextricata*, but historical use of that name as a geometrid is incorrect.

floridensis (Hulst, 1898) (Diastictis)
inceptaria of authors; (not Walker, 1860) (Numeria) isappl.

91a0706 M. exonerata (Ferguson, 2008) (Speranza) [NEW]

91a0707 M. sulphurea (Packard, 1873) (Eupistheria) 6283
olivalis (Hulst, 1898) (Diastictis)
sulphuraria; (Packard, 1876) (Thamnonoma) emend.

91a0708 M. amboflava (Ferguson, 1953) (Itame) 6284

Macaria abruptata group Ferguson, 2008

91a0709 M. abruptata (Walker, 1862) (Camptogramma) 6294
pallidula (Hulst, 1896) (Diastictis) *[6297]*

91a0710 M. umbriferata (Hulst, 1887) (Semiothisa) 6293
umbrifasciata (Hulst, 1896) (Diastictis)

Macaria exauspicata group Ferguson, 2008

91a0711 M. anataria (Swett, 1913) (Diastictis) 6287

91a0712 M. boreata (Ferguson, 2008) (Speranza) [NEW]

91a0713 M. coloradensis (Hulst, 1896) (Sympherta) 6289
aegaria Strecker, 1899 (Macaria)

91a0714 M. exauspicata Walker, 1861 (Macaria) 6292

91a0715 M. confederata (Barnes & McDunnough, 1917) (Itame) 6295

91a0716 M. extemporata (Barnes & McDunnough, 1917) (Itame) 6298

Macaria coortaria group Ferguson, 2008

91a0717 M. coortaria (Hulst, 1887) (Thamnonoma) 6299
enigmata (Barnes & McDunnough, 1917) (Itame)

91a0718 M. hesperata (Ferguson, 2008) (Speranza) [NEW]

91a0719 M. prunosata (Ferguson, 2008) (Speranza) [NEW]

Macaria bitactata group Ferguson, 2008

91a0720 M. bitactata (Walker, 1862) (Thera) 6304
atrosignata (Walker, 1862) (Heterophleps)
epigenata (Barnes & McDunnough, 1917) (Itame)
packardaria (Möschler, 1883) (Halia)

91a0721 M. wauaria (Linnaeus, 1758) (Phalaena) I [NEW]

NOTE: Introduced from Europe about 1850; initially it spread across northeastern USA and eastern Canada, but it has since become extirpated in most of that area and is presently found only in eastern ON and southern QC (Ferguson 2008).

ssp. a. wauaria (Linnaeus, 1758) (Phalaena)
fuscaria (Thunberg, 1792) (Phalaena)
v-nigraria (Haworth, 1809) (Geometra)

91a0722 M. subcessaria (Walker, 1861) (Halia) 6303
perarcuata (Walker, 1862) (Thera)

91a0723 M. denticulodes (Hulst, 1896) (Diastictis) 6305

91a0724 M. semivolata (Dyar, 1923) (Phasiane) 6291

91a0725 M. decorata (Hulst, 1896) (Diastictis) 6306

Macaria colata group Ferguson, 2008

NOTE: Ferguson (2008) recognized two taxa as subspecies of *Macaria colata*: *M. c. colata* and *M. c. correlatum*; these were historically treated as separate species. DNA barcoding shows multiple deeply diverged lineages within the current species concept of *M. colata*, strongly suggesting that it is a complex of several species. No subspecies are therefore recognized herein, pending review of the group.

91a0726 M. colata (Grote, 1881) (Phasiane) 6308
correllatum (Hulst, 1896) (Selidosema)
sericeata (Hulst, 1898) (Diastictis)

Macaria ribearia group Ferguson, 2008

91a0727 M. occiduaria (Packard, 1874) (Caulostoma) 6279
andersoni (Swett, 1916) (Diastictis) *[6280]*

NOTE: Synonymized by Schmidt & Anweiler (in Pohl et al. 2010; Appendix).

flavicaria of authors; (not Packard, 1876) (Thamnonoma) misid.
orientis (Ferguson, 1953) (Itame)

91a0728 M. argillacearia (Packard, 1874) (Tephrina) 6282
modestaria (Hulst, 1895) (Tephrina)

91a0729 M. evagaria (Hulst, 1900) (Cymatophora) 6278

91a0730 M. flavicaria (Packard, 1876) (Thamnonoma) 6276

subfalcata (Hulst, 1896) (Diastictis) *[6277]*
91a0731 M. helena (Cassino, 1928) (Itame) [NEW]
91a0732 M. ribearia (Fitch, 1848) (Abraxas) 6274
aniusaria (Walker, 1863) (Ellopia)
annisaria (Walker, 1860) (Endropia)
fascioferaria (Hulst, 1887) (Thamnonoma) *[6275]*
sigmaria (Guenée, [1858]) (Aspilates)
91a0733 M. simplex (Dyar, 1907) (Pygmaena) 6281

[Macaria – ungrouped 2]

91a0734 M. lorquinaria (Guenée, [1858]) (Tephrina) 6324
tripunctaria (Packard, 1873) (Halia)
91a0735 M. loricaria (Eversmann, 1837) (Fidonia) H 6290
julia (Hulst, 1896) (Sympherta)
nubilata (Warren, 1904) (Thamnonoma)
vinctaria (Zeller, 1846) (Idaea)
91a0736 M. plumosata (Barnes & McDunnough, 1917) (Itame) 6296
91a0737 M. pustularia (Guenée, [1858]) (Stegania) 6273

Macaria quadrilinearia group Ferguson, 2008

91a0738 M. quadrilinearia (Packard, 1873) (Halia) 6288
disparata (Warren, 1904) (Tephrina)
inquinaria (Hulst, 1887) (Semiothisa)
pallescens (Grossbeck, 1907) (Selidosema) *[6307]*
91a0739 M. trilinearia (Grossbeck, 1910) (Cymatophora) 6302
91a0740 M. guenearia (Packard, 1876) (Thamnonoma) 6301
91a0741 M. austrinata (Ferguson, 2008) (Speranza) [NEW]

Macaria graphidara group Ferguson, 2008

91a0742 M. deceptrix (Dyar, 1913) (Sciagraphia) [NEW]
sobriaria (Barnes & McDunnough, 1917) (Itame) *[6312]*
91a0743 M. graphidaria (Hulst, 1887) (Semiothisa) 6311
91a0744 M. schatzeata (Cassino, 1927) (Itame) 6310
dimidiata (Cassino, 1927) (Itame)
minata (Cassino, 1928) (Itame) *[6313]*
91a0745 M. benigna (Hulst, 1898) (Diastictis) 6309
91a0746 M. perornata (Barnes & McDunnough, 1916) (Itame) 6300

Macaria pallipenata group Ferguson, 2008

91a0747 M. grossbecki (Barnes & McDunnough, 1913) (Diastictis) 6315
91a0748 M. saphenata (Ferguson, 2008) (Speranza) [NEW]
91a0749 M. simpliciata (Barnes & McDunnough, 1918) (Itame) 6316
91a0750 M. pallipennata (Barnes & McDunnough, 1912) (Diastictis) 6317

Macaria notata group Ferguson, 2008

91a0751 M. ulsterata (Pearsall, 1913) (Philobia) REV. STAT. 6330
enotata of authors; not Guenée, [1858] (Macaria) misappl.
notata of authors; (not Linnaeus, 1758) (Phalaena) misappl.
regulata of authors; (not Fabricius, 1775) (Phalaena) misappl.
NOTE: Ferguson (2008) placed the North American taxon *ulsterata* as a junior synonym of the European *M. notata* based on the lack of apparent morphological differences. The unusually large divergence (for sibling species of *Macaria*) in DNA barcodes (~3%) indicates that NA and European taxa were correctly treated as separate species in the past, and we reinstate *ulsterata* to species status. Historical records of *M. notata* in NA refer to *M. ulsterata*. Additionally, historical NA records of the European species *M. regulata* and its synonym *enotata* also refer to *M. ulsterata*.
ssp. a. ulsterata (Pearsall, 1913) (Philobia)
ssp. b. appalachiata Ferguson, 2008 (Macaria)
91a0752 M. aemulataria Walker, 1861 (Macaria) 6326
aspirata (Pearsall, 1913) (Philobia) *[6328]*
perplexata (Pearsall, 1913) (Philobia) *[6327]*
sectomaculata Morrison, 1874 (Macaria)
versitata (Pearsall, 1913) (Philobia) *[6329]*
91a0753 M. juglandata Ferguson, 2008 (Macaria) [NEW]
91a0754 M. promiscuata (Ferguson, 1974) (Semiothisa) 6331

[Macaria – ungrouped 3]

91a0755 M. carpo (Druce, 1893) (Semiothisa) [NEW]
infimata of authors; not Guenée, 1857 (Macaria) misappl. *[6334]*

Macaria bicolorata group Ferguson, 2008

91a0756 M. aequiferaria Walker, 1861 (Macaria) 6335
morosaria Walker, 1861 (Macaria)
postrema Walker, 1861 (Macaria)
subpunctaria Walker, 1861 (Macaria)
91a0757 M. bisignata Walker, 1866 (Macaria) 6342
consimilata Zeller, 1872 (Macaria)
festa (Hulst, 1896) (Diastictis)
galbineata Zeller, 1872 (Macaria)
91a0758 M. masquerata Ferguson, 2008 (Macaria) [NEW]
NOTE: Prior to its description in 2008, this species was treated within the concept of *M. bicolorata*.
91a0759 M. bicolorata (Fabricius, 1798) (Phalaena) 6341
consepta Walker, 1861 (Macaria)
grassata Hulst, 1881 (Macaria)
praeatomata (Haworth, 1809) (Phalaena)
91a0760 M. adonis Barnes & McDunnough, 1918 (Macaria) 6338
91a0761 M. ponderosae Ferguson, 2008 (Macaria) [NEW]
91a0762 M. transitaria Walker, 1861 (Macaria) 6339
ssp. a. transitaria Walker, 1861 (Macaria)
ssp. b. resinosae Ferguson, 2008 (Macaria)
91a0763 M. distribuaria (Hübner, 1825) (Eutropa) 6336
antaurata (Walker, 1863) (Aspilates)
oppositaria Guenée, [1858] (Macaria)
proxanthata Walker, 1863 (Macaria)
91a0764 M. sanfordi (Rindge, 1958) (Semiothisa) 6337
91a0765 M. minorata Packard, 1873 (Macaria) 6340

Macaria signaria group Ferguson, 2008

91a0766 M. sexmaculata Packard, 1867 (Macaria) 6343
ssp. a. sexmaculata Packard, 1867 (Macaria)
deleta (Hulst, [1901] 1900) (Cymatophora) *[6320]*
labradoriata (Möschler, 1883) (Semiothisa)
unimodaria Morrison, 1874 (Macaria)
ssp. b. incolorata Dyar, 1904 (Macaria)
purcellata (Taylor, 1908) (Sciagraphia)
91a0767 M. signaria (Hübner, [1809]) (Geometra) H 6344
NOTE: The taxa *marmorata*, *submarmorata*, and *unipunctaria* were synonymized under *M. signa*ria by Schmidt & Anweiler (in Pohl et al. 2010; Appendix).
banksianae (Ferguson, 1974) (Semiothisa) *[6349]*
dispuncta (Walker, 1860) (Tephrosia)
exnotata (Walker, 1862) (Larentia)
fraserata (Ferguson, 1974) (Semiothisa) *[6345]*
haliata Walker, 1861 (Macaria)
inordinaria (Walker, 1860) (Boarmia)
irregulata Walker, 1861 (Macaria)
marmorata (Ferguson, 1972) (Semiothisa)
perplexa McDunnough, 1927 (Macaria)
quadrisignata Walker, 1866 (Macaria)
subapicaria Walker, 1863 (Macaria)
subapiciaria Walker, 1861 (Macaria)
submarmorata Walker, 1861 (Macaria) *[6350]*
unipunctaria (Wright, 1916) (Melanolophia) *[6346]*
91a0768 M. pinistrobata (Ferguson, 1972) (Semiothisa) 6347
91a0769 M. fissinotata (Walker, [1863]) (Acidalia) 6348
retinotata Walker, 1863 (Macaria)
91a0770 M. oweni (Swett, 1907) (Sciagraphia) 6351
91a0771 M. granitata Guenée, [1858] (Macaria) 6352
succosata Zeller, 1872 (Macaria)

Macaria multilineata group Ferguson, 2008

91a0772 M. multilineata Packard, 1873 (Macaria) 6353
patriciata (Grote, 1883) (Semiothisa)

Genus "MACARIA" Curtis, 1826 PROV. PL.; (excl.)

91a0773E M. crocearia (Hulst, 1887) (Aspilates)
EXCL.; mispl. 6319
NOTE: This species was described from TX. In all probability, this is another of several species described by Hulst that were stated to be from NA but are not (two other Hulst species were removed from the NA fauna by Ferguson, in Hodges et al. (1983) after they were found to be Asian species). The holotype of *Macaria crocearia* (AMNH website) does not resemble any known NA species or genus, and the taxon is here excluded from the NA fauna. It remains a nomen inquirendum.

Genus DIGRAMMIA Gumppenberg, 1887
ID INFO: Ferguson (2008).

Digrammia californiaria group Ferguson, 2008

91a0774 D. californiaria (Packard, 1871) (Macaria) 6380
91a0775 D. colorata (Grote, 1883) (Semiothisa) 6381
conarata (Grossbeck, 1908) (Sciagraphia)
godmani (Druce, 1892) (Cleora)
91a0776 D. pervolata (Hulst, 1880) (Thamnonoma) 6383
davisata (Cassino, 1928) (Phasiane) *[6382]*
91a0777 D. aliciata (Cassino, 1928) (Phasiane) [NEW]
aliceata; (Ferguson, 1983) (Phasiane) missp. *[6387]*

Digrammia denticulata group Ferguson, 2008

91a0778 D. sexpunctata (Bates, 1886) (Semiothisa) [NEW]
91a0779 D. delectata (Hulst, 1887) (Semiothisa) 6374
91a0780 D. ubiquitata Ferguson, 2008 (Digrammia) [NEW]
91a0781 D. denticulata (Grote, 1883) (Semiothisa) 6373

Digrammia nubiculata group Ferguson, 2008

91a0782 D. pictipennata (Hulst, 1898) (Macaria) 6372
91a0783 D. terramalata Ferguson, 2008 (Digrammia) [NEW]
91a0784 D. nubiculata (Packard, 1876) (Phasiane) 6371
91a0785 D. palodurata Ferguson, 2008 (Digrammia) [NEW]
91a0786 D. curvata (Grote, 1880) (Phasiane) 6370
cruciata (Grote, 1883) (Phasiane)

Digrammia pallidata group Ferguson, 2008

91a0787 D. pallidata (Packard, 1873) (Macaria) 6410
azureata (Cassino, 1928) (Macaria) *[6384]*
91a0788 D. triviata (Barnes & McDunnough, 1917) (Phasiane) 6385
woodgateata (Cassino, 1928) (Phasiane) *[6388]*

Digrammia continuata group Ferguson, 2008

91a0789 D. continuata (Walker, 1862) (Anaitis) 6362
orillata (Walker, [1863]) (Anaitis) *[6361]*
strigularia (Walker, 1863) (Aspilates)
91a0790 D. pertinata (McDunnough, 1939) (Semiothisa) 6365
91a0791 D. setonana (McDunnough, 1927) (Phasiane) 6364
91a0792 D. napensis (McDunnough, 1939) (Semiothisa) 6366
91a0793 D. imparilata Ferguson, 2008 (Digrammia) [NEW]
91a0794 D. excurvata (Packard, 1874) (Phasiane) 6363
spodopterata (Hulst, 1898) (Sciagraphia)
91a0795 D. pallorata Ferguson, 2008 (Digrammia) [NEW]
91a0796 D. cinereola (Hulst, 1896) (Diastictis) [NEW]
ssp. a. cinereola (Hulst, 1896) (Diastictis)
ssp. b. septemberata (Barnes & McDunnough, 1917) (Phasiane) [6375]
91a0797 D. burneyata (McDunnough, 1939) (Semiothisa) 6376
91a0798 D. atrofasciata (Packard, 1876) (Phasiane) 6368
nigroalbana (Cassino, 1928) (Phasiane) *[6367]*
91a0799 D. modocata Ferguson, 2008 (Digrammia) [NEW]

Digrammia muscariata group Ferguson, 2008

91a0800 D. muscariata (Guenée, [1858]) (Tephrina) 6377
ssp. a. muscariata (Guenée, [1858]) (Tephrina)
ssp. b. respersata (Hulst, 1880) (Macaria) [6378]
subacuta (Hulst, 1896) (Diastictis)
ssp. c. teucaria (Strecker, 1899) (Macaria) [6379]
91a0801 D. extenuata Ferguson, 2008 (Digrammia) [NEW]

Digrammia eremiata group Ferguson, 2008

91a0802 D. ocellinata (Guenée, [1858]) (Macaria) 6386
duplicata (Packard, 1873) (Macaria)
91a0803 D. ordinata (Walker, 1862) (Fidonia) 6358
aucillaria (Strecker, 1899) (Macaria)
maculifascia (Hulst, 1896) (Sciagraphia) *[6356]*
91a0804 D. sublacteolata (Hulst, 1887) (Semiothisa) 6355
lapitaria (Strecker, 1899) (Macaria)
91a0805 D. eremiata (Guenée, [1858]) (Psamatodes) 6357
gradata (Walker, 1861) (Tephrina)
retectata (Walker, 1861) (Tephrina)
retentata (Walker, 1861) (Tephrina)
subcinctaria (Walker, 1863) (Macaria)

Digrammia equivocata group Ferguson, 2008

91a0806 D. equivocata Ferguson, 2008 (Digrammia) [NEW]

Digrammia rippertaria group Ferguson, 2008

91a0807 D. rippertaria (Duponchel, 1830) (Phasiane) H [NEW]
ssp. a. rippertaria (Duponchel, 1830) (Phasiane)
demaculata (Barnes & McDunnough, 1917) (Phasiane)
hebetata of authors; (not Hulst, 1881) (Phasiane) misid.
ponderosa (Barnes & McDunnough, 1917) (Phasiane)
91a0808 D. hebetata (Hulst, 1881) (Phasiane) 6394
innotata (Cassino & Swett, 1923) (Phasiane)
tulareata (Cassino & Swett, 1923) (Phasiane)
91a0809 D. decorata (Grossbeck, 1907) (Sciagraphia) [NEW]
arubrescens McDunnough, 1939 (Digrammia) *[6389]*
sinuata (Warren, 1904) (Lozogramma)
suffusata (McDunnough, 1939) (Semiothisa)
91a0810 D. plemmelata Ferguson, 2008 (Digrammia) [NEW]
91a0811 D. spinata (McDunnough, 1939) (Semiothisa) 6391
vernata (McDunnough, 1939) (Semiothisa) *[6390]*
91a0812 D. indeterminata (McDunnough, 1939) (Semiothisa)
REV. COMB. 6392
NOTE: When Rajaei et al. (2022b) proposed *Frederickia* as a replacement name for *Rindgea* Ferguson, 2008, they erroneously transferred this species to *Frederickia*, having confused it with *Rindgea indeterminata* (Warren, 1906), a Mexican species of the *Rindgea* (=*Frederickia*) *s-signata* species group. We hereby transfer *Semiothisa indeterminata* McDunnough, 1939 back to *Digrammia* (contributed by SRN).
91a0813 D. yavapai (Grossbeck, 1907) (Sciagraphia) 6393
91a0814 D. mellistrigata (Grote, 1873) (Phasiane) 6397
91a0815 D. gilletteata (Dyar, 1904) (Macaria) 6400
NOTE: This may not be a valid species; possibly a form of *D. subminiata* (Ferguson 2008).
91a0816 D. subminiata (Packard, 1873) (Panagra) 6399
meadiaria (Packard, 1874) (Phasiane) *[6401]*
snoviata (Packard, 1876) (Phasiane) *[6398]*
91a0817 D. neptaria (Guenée, [1858]) (Tephrina) 6396
cinereata (Bates, 1886) (Phasiane)
flavofasciata (Packard, 1871) (Panagra)
sinuata (Packard, 1874) (Phasiane)
trifasciata (Packard, 1874) (Phasiane)
91a0818 D. irrorata (Packard, 1876) (Phasiane) 6395
ssp. a. irrorata (Packard, 1876) (Phasiane)
ssp. b. venosata (McDunnough, 1939) (Semiothisa)
ssp. c. rubricata Ferguson, 2008 (Digrammia)
91a0819 D. fieldi (Swett, 1916) (Macaria) 6402
comstocki (Sperry, 1949) (Semiothisa)
grossbecki (Swett, 1916) (Macaria)
91a0820 D. puertata (Grossbeck, 1912) (Macaria) 6404
91a0821 D. minuta (Hulst, 1896) (Diastictis) 6403
91a0822 D. gnophosaria (Guenée, [1858]) (Tephrina) 6405
caesiaria (Hulst, 1888) (Semiothisa)
da (Dyar, 1916) (Macaria)
infectaria (Walker, 1862) (Camptogramma)
reductaria (Walker, 1863) (Macaria)

Genus FREDERICKIA Rajaei, Hausmann & Sihvonen, 2022
ID INFO: Ferguson (2008).
NOTE: Rajaei et al. (2022b) proposed *Frederickia* as a replacement name for *Rindgea* Ferguson, 2008, which is a junior primary homonym of *Rindgea* Johnson, 1993 (Lepidoptera: Papilionoidea: Lycaenidae).
RINDGEA Ferguson, 2008

Frederickia maricopa group Ferguson, 2008

91a0823 F. subterminata (Barnes & McDunnough, 1913) (Macaria) 6413
91a0824 F. nigricomma (Warren, 1904) (Semiothisa) 6407
heliothidata of authors; (not Guenée, [1858]) (Sciagraphia) misappl.
nigrocomina; (McDunnough, 1938) (Rindgea) missp.
91a0825 F. piccoloi (Rindge, 1976) (Semiothisa) 6408
91a0826 F. parcata (Grossbeck, 1908) (Sciagraphia) 6406
91a0827 F. disparcata (Ferguson, 2008) (Rindgea) [NEW]
91a0828 F. stipularia (Barnes & McDunnough, 1913) (Macaria) 6409
91a0829 F. prolificata (Ferguson, 2008) (Rindgea) [NEW]
91a0830 F. maricopa (Hulst, 1898) (Diastictis) 6369
sirenata (McDunnough, 1939) (Semiothisa) [6411]
91a0831 F. flaviterminata (Barnes & McDunnough, 1913) (Macaria) 6412

Frederickia s-signata group Ferguson, 2008

91a0832 F. s-signata (Packard, 1873) (Macaria) 6414
91a0833 F. cyda (Druce, 1893) (Eubolia) 6415
91a0834 F. ballandrata (Wright, 1923) (Phasiane) 6416
melanderi (Sperry, 1948) (Semiothisa)
91a0835 F. hypaethrata (Grote, 1881) (Phasiane) 6417

Genus NARRAGA Walker, 1862
ID INFO: Ferguson (2008).
NOTE: Ferguson (2008) argued that the three NA species formerly included in this genus warranted recognition in a distinct genus, *Fernaldella*. However, DNA barcode data indicate that although the NA species are more closely related to each other than to Eurasian *Narraga*, treating them as a separate genus would likely render the remainder of *Narraga* as paraphyletic. We agree with Scoble & Krüger (2002) and Sihvonen & Skou (2015) and treat *Fernaldella* as a junior synonym, returning the NA species to *Narraga*.
FERNALDELLA Hulst, 1896

91a0836 N. fimetaria (Grote & Robinson, 1870) (Fidonia) 6420
angelata (Wright, 1923) (Fernaldella)
halesaria (Zeller, 1872) (Fidonia)
partitaria (Grote, 1883) (Fidonia)
91a0837 N. georgiana Covell, Finkelstein & Towers, 1984 (Narraga) [NEW]
91a0838 N. stalachtaria (Strecker, 1878) (Fidonia) 6421
alternaria (Grote, 1883) (Fidonia)

Tribe BOARMIINI Duponchel, 1845

NOTE: The tribes Melanolophini Forbes, 1948 and Bistonini Stephens, 1850 were subsumed into Boarmiini by Brehm et al. (2019).

Genus GLENOIDES McDunnough, 1920
ID INFO: Blanchard (1973b).

91a0839 G. texanaria (Hulst, 1888) (Tephrosia) 6443
91a0840 G. lenticuligera Blanchard, 1973 (Glenoides) 6444

Genus GLENA Hulst, 1896
ID INFO: Rindge (1965).
HETERERANNIS Warren, 1904
MONROA Warren, 1904

91a0841 G. grisearia (Grote, 1883) (Cymatophora) 6445
pexata (Swett, 1907) (Cleora)
91a0842 G. furfuraria (Hulst, 1888) (Boarmia) 6446
ssp. a. furfuraria (Hulst, 1888) (Boarmia)
alpenata Cassino, 1927 (Glena)
alpinata; McDunnough, 1938 (Glena) emend.
ssp. b. minor Sperry, 1952 (Glena)
91a0843 G. arcana Rindge, 1958 (Glena) 6447
91a0844 G. nigricaria (Barnes & McDunnough, 1913) (Selidosema) 6448
rusticaria (Barnes & McDunnough, 1917) (Cleora)
91a0845 G. cribrataria (Guenée, [1858]) (Tephrosia) 6449
fuliginaria (Hulst, 1888) (Boarmia)
91a0846 G. cognataria (Hübner, [1831]) (Anagoga) 6450
acidaliaria (Walker, 1863) (Aspilates)
crassata (Hulst, 1896) (Diastictis)
infixaria (Walker, 1863) (Aspilates)
insaria (Dyar, 1909) (Selidosema)
muricolor (Hulst, 1896) (Selidosema)
umatillaria (Strecker, 1899) (Anisodes)
91a0847 G. interpunctata (Barnes & McDunnough, 1917) (Monroa) 6451
ssp. a. interpunctata (Barnes & McDunnough, 1917) (Monroa)
ssp. b. thomasaria Sperry, 1952 (Glena)
91a0848 G. plumosaria (Packard, 1874) (Cymatophora) 6452
91a0849 G. quinquelinearia (Packard, 1874) (Cymatophora) 6453
91a0850 G. mcdunnougharia Sperry, 1952 (Glena) [NEW]
macdunnougharia; Ferguson, 1983 (Glena) emend. [6454]
91a0851 G. kirkwoodaria Sperry, 1952 (Glena) N. STAT. [NEW]
NOTE: Previously considered a subspecies of *G. mcdunnougharia*, but DNA barcode and morphological differences indicate it is a separate species (n. stat.). Rindge (1965) attributed authorship of this name to himself, but that was based on a misinterpretation of the code; Sperry described *kirkwoodaria* as a regional "variety" of *G. interpunctata*, which qualifies as a code-compliant species-group name for names proposed before 1961.

Genus STENOPORPIA McDunnough, 1920
ID INFO: Rindge (1968).

91a0852 S. pulchella (Grossbeck, 1909) (Selidosema) 6455
ssp. a. pulchella (Grossbeck, 1909) (Selidosema)
ssp. b. coolidgearia Dyar, 1923 (Stenoporpia)
91a0853 S. margueritae Rindge, 1968 (Stenoporpia) 6456
ssp. a. margueritae Rindge, 1968 (Stenoporpia)
ssp. b. farina Rindge, 1968 (Stenoporpia)
91a0854 S. asymmetra Rindge, 1959 (Stenoporpia) 6457
91a0855 S. dionaria (Barnes & McDunnough, 1918) (Cleora) 6458
91a0856 S. polygrammaria (Packard, 1876) (Cymatophora) 6459
91a0857 S. mediatra Rindge, 1958 (Stenoporpia) 6460
91a0858 S. dissonaria (Hulst, 1896) (Alcis) 6461
ssp. a. dissonaria (Hulst, 1896) (Alcis)
elena Cassino, 1927 (Stenoporpia)
ssp. b. campa Rindge, 1968 (Stenoporpia)
91a0859 S. anastomosaria (Grossbeck, 1908) (Selidosema) 6462
91a0860 S. pulmonaria (Grote, 1881) (Cymatophora) 6463
ssp. a. pulmonaria (Grote, 1881) (Cymatophora)
ssp. b. dejecta (Hulst, 1896) (Alcis)
ssp. c. lita Rindge, 1968 (Stenoporpia)
ssp. d. albescens (Hulst, 1896) (Selidosema)
ssp. e. satisfacta (Barnes & McDunnough, 1917) (Cleora)
ssp. f. vicaria Rindge, 1968 (Stenoporpia)
91a0861 S. purpuraria (Barnes & McDunnough, 1913) (Selidosema) 6464
91a0862 S. vernata (Barnes & McDunnough, 1917) (Cleora) 6465
ssp. a. vernata (Barnes & McDunnough, 1917) (Cleora)
jemesata Cassino, 1927 (Stenoporpia)
ssp. b. variana Rindge, 1968 (Stenoporpia)
91a0863 S. vernalella McDunnough, 1940 (Stenoporpia) 6466
91a0864 S. insipidaria McDunnough, 1945 (Stenoporpia) 6467
91a0865 S. anellula (Barnes & McDunnough, 1917) (Cleora) 6468
91a0866 S. badia Rindge, 1968 (Stenoporpia) 6469
91a0867 S. macdunnoughi Sperry, 1938 (Stenoporpia) 6470
91a0868 S. blanchardi Rindge, 1968 (Stenoporpia) 6471
91a0869 S. glaucomarginaria McDunnough, 1945 (Stenoporpia) 6472
91a0870 S. separataria (Grote, 1883) (Cymatophora) 6473
umbraria McDunnough, 1925 (Stenoporpia)
91a0871 S. excelsaria (Strecker, 1899) (Boarmia) 6474
ssp. a. excelsaria (Strecker, 1899) (Boarmia)
ssp. b. pullata Rindge, 1968 (Stenoporpia)
91a0872 S. larga Rindge, 1968 (Stenoporpia) 6475
91a0873 S. graciella McDunnough, 1940 (Stenoporpia) 6476
91a0874 S. lea Rindge, 1968 (Stenoporpia) 6477

Genus EXELIS Guenée, 1857
ID INFO: Rindge (1952).
PATRIDAVA Walker, 1863

91a0875 E. pyrolaria Guenée, [1858] (Exelis) 6478
approximaria (Packard, 1876) (Tornos)
tensaria (Walker, 1863) (Patridava)
91a0876 E. dicolus Rindge, 1952 (Exelis) 6479

91a0877 E. ophiurus Rindge, 1952 (Exelis) 6480

Genus TORNOS Morrison, 1875
ID INFO: Rindge (1954).

91a0878 T. hoffmanni Rindge, 1954 (Tornos) 6482
91a0879 T. punctata (Druce, 1898) (Lepiodes) 6481
91a0880 T. scolopacinaria (Guenée, [1858]) (Lepiodes) 6486
ssp. a. scolopacinaria (Guenée, [1858]) (Lepiodes)
pervelata (Walker, 1863) (Tephrina)
piazzata Cassino & Swett, 1923 (Tornos)
robiginosus Morrison, 1875 (Tornos)
ssp. b. spodius Rindge, 1954 (Tornos)
ssp. c. forsythae Rindge, 1954 (Tornos)
91a0881 T. benjamini Cassino & Swett, 1925 (Tornos) 6483
91a0882 T. erectarius Grossbeck, 1909 (Tornos) 6484
ssp. a. erectarius Grossbeck, 1909 (Tornos)
pimensarius Cassino & Swett, 1923 (Tornos)
ssp. b. fieldi Grossbeck, 1912 (Tornos)
91a0883 T. cinctarius Hulst, 1887 (Tornos) 6485
91a0884 T. abjectarius Hulst, 1887 (Tornos) 6487
ssp. a. abjectarius Hulst, 1887 (Tornos)
kerrvillaria Cassino & Swett, 1922 (Tornos)
ssp. b. calcasiatus Cassino & Swett, 1923 (Tornos)
ssp. c. ravus Rindge, 1954 (Tornos)
ssp. d. kimballi Rindge, 1954 (Tornos)

Genus GLAUCINA Hulst, 1896
ID INFO: Rindge (1959); also Ferris & Nordin (2002).
COENOCHARIS Hulst, 1896

Glaucina group I Rindge, 1959

91a0885 G. erroraria Dyar, 1907 (Glaucina) 6488
abdominalis Grossbeck, 1912 (Glaucina)
bilineata Grossbeck, 1912 (Glaucina)
pearsalli Grossbeck, 1912 (Glaucina)
91a0886 G. biartata Rindge, 1959 (Glaucina) 6489
91a0887 G. utahensis (Cassino & Swett, 1924) (Coenocharis) 6490
91a0888 G. cilla Rindge, 1959 (Glaucina) 6491
91a0889 G. macdunnoughi (Grossbeck, 1912) (Coenocharis) 6492
albidaria Cassino & Swett, 1922 (Glaucina)
91a0890 G. epiphysaria Dyar, 1908 (Glaucina) 6493
91a0891 G. baea Rindge, 1959 (Glaucina) 6494
91a0892 G. escaria (Grote, 1882) (Tornos) 6495
puellaria Dyar, 1907 (Glaucina)
91a0893 G. eupetheciaria (Grote, 1883) (Tornos) 6496
ssp. a. eupetheciaria (Grote, 1883) (Tornos)
pygmeolaria (Grote, 1883) (Tornos)
tuconensis (Cassino & Swett, 1924) (Coenocharis)
ssp. b. lucida Rindge, 1959 (Glaucina)
ssp. c. osiana (Druce, 1893) (Eupithecia)
ssp. d. escariola Rindge, 1959 (Glaucina)
91a0894 G. elongata (Hulst, 1896) (Coenocharis) 6497

Glaucina group II Rindge, 1959

91a0895 G. golgolata (Strecker, 1899) (Eupithecia) 6498
golgata; Dyar, 1903 (Glaucina) missp.
mormonaria Dyar, 1907 (Glaucina)
91a0896 G. magnifica Grossbeck, 1912 (Glaucina) 6499
91a0897 G. ampla Rindge, 1959 (Glaucina) 6500

Glaucina group III Rindge, 1959

91a0898 G. bifida Rindge, 1959 (Glaucina) 6501

Glaucina group IV Rindge, 1959

91a0899 G. interruptaria (Grote, 1882) (Tornos) 6502
ssp. a. interruptaria (Grote, 1882) (Tornos)
jemezata (Cassino & Swett, 1923) (Coenocharis)
ssp. b. alboceptata (Dyar, 1915) (Coenocharis)
91a0900 G. spaldingata (Cassino & Swett, 1923) (Coenocharis) 6503
91a0901 G. gonia Rindge, 1959 (Glaucina) 6504
ssp. a. gonia Rindge, 1959 (Glaucina)
ssp. b. microgonia Rindge, 1959 (Glaucina)
91a0902 G. platia Rindge, 1959 (Glaucina) 6505
91a0903 G. nephos Rindge, 1959 (Glaucina) 6506
91a0904 G. infumataria (Grote, 1877) (Tornos) 6507
91a0905 G. ignavaria (Pearsall, 1906) (Coenocharis) 6508
91a0906 G. incognitaria Ferris & Nordin, 2002 (Glaucina) [NEW]
91a0907 G. lowensis (Cassino & Swett, 1925) (Coenocharis) 6509
91a0908 G. dispersa Rindge, 1959 (Glaucina) 6510
91a0909 G. denticularia (Dyar, 1907) (Coenocharis) 6511
91a0910 G. imperdata (Dyar, 1915) (Coenocharis) 6512
91a0911 G. mayelisaria Blanchard, 1966 (Glaucina) 6513
91a0912 G. nota Rindge, 1959 (Glaucina) 6514
91a0913 G. eureka (Grossbeck, 1912) (Coenocharis) 6515
ssp. a. eureka (Grossbeck, 1912) (Coenocharis)
ssp. b. agnesae Rindge, 1959 (Glaucina)
91a0914 G. ochrofuscaria (Grote, 1882) (Tornos) 6516
ssp. a. ochrofuscaria (Grote, 1882) (Tornos)
obscura (Grossbeck, 1912) (Coenocharis)
ssp. b. indistincta (Grossbeck, 1912) (Coenocharis)
albata (Cassino & Swett, 1923) (Coenocharis)
91a0915 G. loxa Rindge, 1959 (Glaucina) 6517

Glaucina group V Rindge, 1959

91a0916 G. anomala Rindge, 1959 (Glaucina) 6518

Genus SYNGLOCHIS Hulst, 1896
ID INFO: Rindge (1959).

91a0917 S. perumbraria Hulst, 1896 (Synglochis) 6519

Genus EUBARNESIA Cockerell, 1917
ID INFO: Rindge (1959).
BARNESIA Grossbeck, 1910
BARNESIATA Strand, 1926
CEDARIA Grossbeck, 1910

91a0918 E. ritaria (Grossbeck, 1910) (Cedaria) 6520
ssp. a. ritaria (Grossbeck, 1910) (Cedaria)
ssp. b. arida Rindge, 1959 (Eubarnesia)

Genus PARAGLAUCINA Rindge, 1959
ID INFO: Rindge (1959).

91a0919 P. hulstinoides (Grossbeck, 1912) (Glaucina) 6521

Genus NEPTEROTAEA McDunnough, 1920
ID INFO: Rindge (1973a).

91a0920 N. diagonalis Cassino, 1927 (Nepterotaea) 6522
91a0921 N. marjorae Rindge, 1973 (Nepterotaea) 6523
91a0922 N. ozarkensis Rindge, 1973 (Nepterotaea) 6524
91a0923 N. dorotheata Sperry, 1949 (Nepterotaea) 6525
91a0924 N. furva Rindge, 1973 (Nepterotaea) 6526
91a0925 N. memoriata (Pearsall, 1906) (Pterotaea) 6527
91a0926 N. obliviscata (Barnes & McDunnough, 1918) (Pterotaea) 6528

Genus CHESIADODES Hulst, 1896
ID INFO: Rindge (1973a).
JENANA Clarke, 1939
MORINA Grossbeck, 1912

91a0927 C. simularia (Barnes & McDunnough, 1918) (Glaucina) 6529
91a0928 C. cinerea Rindge, 1973 (Chesiadodes) 6530
91a0929 C. morosata Hulst, 1896 (Chesiadodes) 6531
91a0930 C. tubercula Rindge, 1973 (Chesiadodes) 6532
91a0931 C. polingi (Cassino, 1927) (Nepterotaea) 6533
91a0932 C. bicolor Rindge, 1973 (Chesiadodes) 6534
91a0933 C. coniferaria (Grossbeck, 1912) (Morina) 6535
91a0934 C. fusca Rindge, 1973 (Chesiadodes) 6536
91a0935 C. curvata (Barnes & McDunnough, 1916) (Morina) 6537
91a0936 C. longa Rindge, 1973 (Chesiadodes) 6538
91a0937 C. dissimilis Rindge, 1973 (Chesiadodes) 6539

Genus HULSTINA Dyar, 1903
ID INFO: Rindge (1970); also Brown (1998).

91a0938 H. formosata (Hulst, 1896) (Cleora) 6540
terlineata Dyar, 1903 (Hulstina)
91a0939 H. imitatrix Rindge, 1970 (Hulstina) 6541

ssp. a. imitatrix Rindge, 1970 (Hulstina)
ssp. b. fulva Rindge, 1970 (Hulstina)
91a0940 H. tanycraeros Rindge, 1970 (Hulstina) 6542
ssp. a. tanycraeros Rindge, 1970 (Hulstina)
ssp. b. deserta Rindge, 1970 (Hulstina)
91a0941 H. aridata Barnes & Benjamin, 1929 (Hulstina) 6543
91a0942 H. xera Rindge, 1970 (Hulstina) 6544
91a0943 H. grossbecki Rindge, 1970 (Hulstina) 6545
91a0944 H. nevadaria Brown, 1998 (Hulstina) [NEW]
91a0945 H. exhumata (Swett, 1918) (Cleora) 6546
91a0946 H. wrightiaria (Hulst, 1888) (Boarmia) 6547
aethalodaria (Dyar, 1908) (Selidosema)
inconspicua (Hulst, 1896) (Chloroclystis)

Genus PTEROTAEA Hulst, 1896
ID INFO: Rindge (1970).

91a0947 P. crickmeri (Sperry, 1946) (Stenoporpia) 6548
91a0948 P. crinigera Rindge, 1970 (Pterotaea) 6549
91a0949 P. depromaria (Grote, 1883) (Boarmia) [NEW]
NOTE: This taxon was apparently overlooked by Ferguson (in Hodges et al. 1983).
91a0950 P. sperryae McDunnough, 1938 (Pterotaea) 6550
91a0951 P. leuschneri Rindge, 1970 (Pterotaea) 6551
91a0952 P. plagia Rindge, 1970 (Pterotaea) 6552
91a0953 P. lamiaria (Strecker, 1899) (Boarmia) 6553
ssp. a. lamiaria (Strecker, 1899) (Boarmia)
agrestaria (Grossbeck, 1909) (Cleora)
ssp. b. tytthos Rindge, 1970 (Pterotaea)
91a0954 P. campestraria McDunnough, 1941 (Pterotaea) 6554
91a0955 P. succurva Rindge, 1970 (Pterotaea) 6555
91a0956 P. glauca Rindge, 1970 (Pterotaea) 6556
91a0957 P. cavea Rindge, 1970 (Pterotaea) 6557
91a0958 P. miscella Rindge, 1970 (Pterotaea) 6558
91a0959 P. systole Rindge, 1970 (Pterotaea) 6559
91a0960 P. euroa Rindge, 1970 (Pterotaea) 6560
91a0961 P. lira Rindge, 1970 (Pterotaea) 6561
91a0962 P. obscura Rindge, 1970 (Pterotaea) 6562
91a0963 P. comstocki Rindge, 1970 (Pterotaea) 6563
91a0964 P. macrocercos Rindge, 1970 (Pterotaea) 6564
91a0965 P. powelli Rindge, 1970 (Pterotaea) 6565
91a0966 P. albescens McDunnough, 1941 (Pterotaea) 6566
91a0967 P. melanocarpa (Swett, 1916) (Cleora) 6567
ssp. a. melanocarpa (Swett, 1916) (Cleora)
serrataria Barnes & McDunnough, 1916 (Pterotaea)
tremularia Barnes & McDunnough, 1916 (Pterotaea)
ssp. b. opaca Rindge, 1970 (Pterotaea)
91a0968 P. cariosa Hulst, 1896 (Pterotaea) 6568
ssp. a. cariosa Hulst, 1896 (Pterotaea)
ssp. b. incompta Rindge, 1970 (Pterotaea)
ssp. c. aporema Rindge, 1970 (Pterotaea)
91a0969 P. newcombi (Swett, 1914) (Cleora) 6569
ssp. a. newcombi (Swett, 1914) (Cleora)
ssp. b. orinomos Rindge, 1970 (Pterotaea)

Genus ACANTHOTOCA Fletcher, 1979
NOTE: The previous tribal placement of this genus in Ennomini near *Eucaterva* appears to have been solely based on wing phenotype, since DNA and genitalic structure corroborate a close relationship to *Pterotaea* and *Hulstina*. Accordingly, *Acanthotoca* is transferred to Boarmiini herein.
ACANTHOPHORA Hulst, 1896

91a0970 A. graefii (Hulst, 1896) (Acanthophora) [NEW]
graefi; Ferguson, 1983 (Acanthotoca) emend. *[6920]*

Genus IRIDOPSIS Warren, 1894
ID INFO: Rindge (1966).
ANACAMPTODES McDunnough, 1920
NOTE: The genus *Anacamptodes* is a synonym of *Iridopsis* (Scoble et al. 1999).

91a0971 I. cypressaria (Grossbeck, 1917) (Selidosema) 6571
91a0972 I. jacumbaria (Dyar, 1908) (Selidosema) 6572
91a0973 I. dataria (Grote, 1882) (Cymatophora) 6573
91a0974 I. angulata (Rindge, 1966) (Anacamptodes) 6574
91a0975 I. clivinaria (Guenée, [1858]) (Boarmia) 6575
ssp. a. clivinaria (Guenée, [1858]) (Boarmia)
ssp. b. impia (Rindge, 1966) (Anacamptodes)
ssp. c. profanata (Barnes & McDunnough, 1917) (Cleora)
91a0976 I. sanctissima (Barnes & McDunnough, 1917) (Cleora) 6576
91a0977 I. obliquaria (Grote, 1883) (Cymatophora) 6577
rufaria (Grote, 1883) (Cymatophora)
91a0978 I. providentia (Rindge, 1966) (Anacamptodes) 6578
91a0979 I. sancta (Rindge, 1966) (Anacamptodes) 6579
91a0980 I. pergracilis (Hulst, 1900) (Synelys) 6580
91a0981 I. perfectaria (McDunnough, 1940) (Anacamptodes) 6581
91a0982 I. vellivolata (Hulst, 1881) (Macaria) 6582
91a0983 I. ephyraria (Walker, 1860) (Boarmia) 6583
expressaria (Walker, 1863) (Tephrina)
takenaria (Pearsall, 1909) (Cleora)
91a0984 I. humaria (Guenée, [1858]) (Boarmia) 6584
ssp. a. humaria (Guenée, [1858]) (Boarmia)
illaudata (Walker, 1860) (Boarmia)
intractaria (Walker, 1860) (Boarmia)
intraria (Guenée, [1858]) (Boarmia)
ssp. b. pallida (Rindge, 1966) (Anacamptodes)
91a0985 I. fragilaria (Grossbeck, 1909) (Cleora) 6585
91a0986 I. defectaria (Guenée, [1858]) (Boarmia) 6586
albigenaria (Walker, 1860) (Boarmia)
91a0987 I. gemella (Rindge, 1966) (Anacamptodes) 6587
91a0988 I. pseudoherse (Rindge, 1966) (Anacamptodes) [NEW]
NOTE: Added to the NA fauna based on a report from TX by MPG.
91a0989 I. larvaria (Guenée, [1858]) (Boarmia) 6588
91a0990 I. emasculatum (Dyar, 1904) (Selidosema) 6589

Genus ANAVITRINELLA McDunnough, 1922
ANAVITRINELIA; Ferguson, 1983 missp.
VITRINELLA McDunnough, 1920

91a0991 A. pampinaria (Guenée, [1858]) (Boarmia) 6590
ssp. a. pampinaria (Guenée, [1858]) (Boarmia)
collecta (Walker, 1860) (Boarmia)
fraudulentaria (Zeller, 1872) (Boarmia)
frugaliaria (Guenée, [1858]) (Boarmia)
nubiferaria (Swett, 1913) (Cleora)
psilogrammaria (Zeller, 1872) (Boarmia)
stygia (Franclemont, 1938) (Vitrinella)
ssp. b. erosiata (Walker, [1863]) (Phibalapteryx)
91a0992 A. atristrigaria (Barnes & McDunnough, 1913) (Cleora) 6591
91a0993 A. addendaria (Grossbeck, 1908) (Alcis) 6592
91a0994 A. ocularia (Barnes & McDunnough, 1917) (Cleora) 6593

Genus CLEORA Curtis, 1825
ID INFO: Rindge (1972a).

91a0995 C. sublunaria (Guenée, [1858]) (Boarmia) 6594
areataria Broadwell, 1907 (Cleora)
atrolinearia (Hulst, 1888) (Boarmia)
transfixaria (Walker, 1860) (Boarmia)
91a0996 C. projecta (Walker, 1860) (Boarmia) 6595
manitoba (Grossbeck, 1911) (Selidosema)

Genus ECTROPIS Hübner, 1825
ID INFO: McGuffin (1977).
TEPHROSIA Boisduval, 1840

91a0997 E. crepuscularia ([Denis & Schiffermüller], 1775) (Geometra) H 6597
ssp. a. crepuscularia ([Denis & Schiffermüller], 1775) (Geometra)
abraxaria (Walker, 1860) (Tephrosia)
baeticaria (Scharfenberg, 1805) (Phalaena)
bistortata (Goeze, 1781) (Phalaena)
biundularia (Borkhausen, 1794) (Phalaena)
biundulata (Villers, 1789) (Phalaena)
cineraria (Walker, 1860) (Boarmia)
defessaria (Freyer, 1847) (Boarmia)
divisaria (Walker, 1860) (Boarmia)
fernaldaria (Hulst, 1888) (Boarmia)
fumataria (Minot, 1869) (Tephrosia)
intrataria (Walker, 1860) (Tephrosia)
occiduaria (Guenée, [1858]) (Tephrosia)
signaria (Walker, 1860) (Boarmia)
spatiosaria (Walker, 1860) (Tephrosia)
strigularia (Stephens, 1831) (Boarmia)

tristis (Riesen, 1897) (Boarmia)
virginiaria (Cramer, [1780]) (Phalaena)

Genus PROTOBOARMIA McDunnough, 1920
ID INFO: McGuffin (1977).

91a0998 P. porcelaria (Guenée, [1858]) (Boarmia) 6598
ssp. a. porcelaria (Guenée, [1858]) (Boarmia)
filaria (Walker, 1860) (Boarmia)
maestosa (Hulst, 1898) (Alcis)
ssp. b. indicataria (Walker, 1860) (Boarmia)

Genus EPIMECIS Hübner, 1825
BRONCHELIA Guenée, 1857

91a0999 E. hortaria (Fabricius, 1794) (Phalaena) H/I 6599
amplaria (Walker, 1860) (Tephrosia)
carbonaria Haimbach, 1915 (Epimecis)
cineraria (Martyn, 1797) (Phalaena)
dendraria (Guenée, [1858]) (Bronchelia)
disserptaria (Walker, 1860) (Bronchelia)
gravilinearia (Andrews, 1878) (Bronchelia)
liriodendraria (Smith, 1797) (Phalaena)
subaustralis (Hulst, 1898) (Cleora) *[6600]*
NOTE: The synonym *subaustralis* was listed by Ferguson (in Hodges et al. 1983) as a synonym here as well as of *Almodes terraria*. The type of *Cleora subaustralis* (USNM) was examined by HDM and clearly pertains to *E. hortaria* on the basis of both superficial and genitalic characters.
virginaria (Herbst, 1785) (Phalaena)
91a1000 E. matronaria (Guenée, [1858]) (Bronchelia) 6601
91a1001 E. anonaria (Felder, 1874) (Bronchelia) 6602
91a1002 E. fraternaria (Guenée, [1858]) (Bronchelia) 6603
91a1003 E. detexta (Walker, 1860) (Bronchelia) 6604

Genus MERICISCA Hulst, 1896
ID INFO: Rindge (1972b).

Subgenus MERICISCA Hulst, 1896

91a1004 M. gracea Hulst, 1896 (Mericisca) 6605
91a1005 M. perpictaria (Barnes & McDunnough, 1916) (Cleora) 6606
91a1006 M. scobina Rindge, 1958 (Mericisca) 6607

Genus PARAPHEROMIA McDunnough, 1920
ID INFO: Rindge (1972b).

91a1007 P. cassinoi McDunnough, 1927 (Parapheromia) 6608
91a1008 P. lichenaria (Pearsall, 1906) (Alcis) 6609
91a1009 P. ficta Rindge, 1972 (Parapheromia) 6610
91a1010 P. configurata (Hulst, 1898) (Selidosema) 6611
91a1011 P. falsata McDunnough, 1920 (Parapheromia) 6612

Genus PRIONOMELIA Walker, 1895
MERISMA McDunnough, 1920

91a1012 P. spododea (Hulst, 1896) (Alcis) 6613
91a1013 P. ceraea (Rindge, 1958) (Merisma) 6614

Genus TRACHEOPS Hulst, 1896

91a1014 T. bolteri Hulst, 1896 (Tracheops) 6615

Genus MELANCHROIA Hübner, 1819
MELANOCHROIA; Ferguson, 1983 missp.

91a1015 M. chephise (Stoll, in: Cramer, [1782]) (Phalaena) 6616
91a1016 M. geometroides Walker, 1854 (Melanochroia [sic]) 6617
mors (Lucas, 1857) (Glaucopis)

Genus ANTIPHOIDES Rindge, 1990
ID INFO: Rindge (1990).
PARAPHOIDES Rindge, 1964

91a1017 A. errantaria (McDunnough, 1940) (Galenara) 6626

Genus ASTALOTESIA Ferguson, Blanchard & Knudson, 1983
ID INFO: Ferguson et al. (1983), Rindge (1990).

91a1018 A. bucurvata Blanchard & Knudson, 1983 (Astalotesia) [NEW]
NOTE: Added to the NA Fauna (TX) by Ferguson et al. (1983).
91a1019 A. hollandi Rindge, 1990 (Astalotesia) [NEW]
NOTE: Added to the NA fauna (AZ) by Ferris (2007b).

Genus EUFIDONIA Packard, 1876
ID INFO: Rindge (1990).

91a1020 E. convergaria (Walker, 1860) (Boarmia) 6637
famulata (Hulst, 1887) (Lozogramma)
91a1021 E. notataria (Walker, 1860) (Tephrosia) 6638
bicoloraria (Minot, 1869) (Fidonia)
fidoniata (Walker, 1862) (Larentia)
91a1022 E. discospilata (Walker, 1862) (Fidonia) 6639
quadripunctata (Morrison, 1874) (Fidonia)

Genus CARPHOIDES McDunnough, 1920
ID INFO: Rindge (1990).

91a1023 C. setigera Rindge, 1958 (Carphoides) 6623
91a1024 C. incopriarius (Hulst, 1887) (Tornos) 6624
lineata (Hulst, 1898) (Aethyctera)
91a1025 C. inconspicuaria (Barnes & McDunnough, 1916) (Parexcelsa) 6625

Genus ANAVINEMINA Rindge, 1964
ID INFO: Rindge (1990).
NOTE: Genus placement follows rough taxonomic sort order in the back pages of Scoble (1999).

91a1026 A. acomos Rindge, 1990 (Anavinemina) [NEW]

Genus GALENARA McDunnough, 1920
ID INFO: Rindge (1990).

91a1027 G. consimilis Heinrich, 1931 (Galenara) 6627
91a1028 G. lallata (Hulst, 1898) (Alcis) 6628
91a1029 G. glaucaria (Grossbeck, 1912) (Cleora) 6629
91a1030 G. lixaria (Grote, 1883) (Phigalia) 6630
91a1031 G. lixarioides McDunnough, 1945 (Galenara) 6631
91a1032 G. stenomacra Rindge, 1958 (Galenara) 6632
91a1033 G. olivacea Rindge, 1958 (Galenara) 6633

Genus VINEMINA McDunnough, 1920
ID INFO: Rindge (1990).

91a1034 V. perdita Guedet, 1939 (Vinemina) 6634
91a1035 V. opacaria (Hulst, 1881) (Cidaria) 6635
nigaria Cassino, 1928 (Vinemina)
91a1036 V. catalina McDunnough, 1945 (Vinemina) 6636

Genus TESIOPHORA Rindge, 1990
ID INFO: Rindge (1990).

91a1037 T. entephros Rindge, 1990 (Tesiophora) [NEW]

Genus MELANOLOPHIA Hulst, 1896
ID INFO: Rindge (1990).

91a1038 M. imitata (Walker, 1860) (Boarmia) 6618
ssp. a. imitata (Walker, 1860) (Boarmia)
subgenericata Dyar, 1904 (Melanolophia)
subimitata Forbes, 1948 (Melanolophia)
ssp. b. barbara McDunnough, 1940 (Melanolophia)
ssp. c. cana Rindge, 1964 (Melanolophia)
91a1039 M. centralis McDunnough, 1920 (Melanolophia) 6619
91a1040 M. canadaria (Guenée, [1858]) (Tephrosia) 6620
ssp. a. canadaria (Guenée, [1858]) (Tephrosia)
ssp. b. crama Rindge, 1964 (Melanolophia)
carbonata Cassino & Swett, 1923 (Melanolophia)
ssp. c. choctawae Rindge, 1964 (Melanolophia)
91a1041 M. signataria (Walker, 1860) (Boarmia) 6621
ssp. a. signataria (Walker, 1860) (Boarmia)
ejectaria (Walker, 1860) (Boarmia)
patularia (Walker, 1861) (Boarmia)
ssp. b. timucuae Rindge, 1964 (Melanolophia)
91a1042 M. imperfectaria (Walker, 1860) (Tephrosia) 6622

Genus ORTHOFIDONIA Packard, 1876
ID INFO: McGuffin (1977).

91a1043 O. tinctaria (Walker, 1860) (Cleora) 6428
91a1044 O. exornata (Walker, 1862) (Larentia) 6429
albifusata (Walker, 1863) (Cidaria)
deceptata (Hulst, 1896) (Diastictis)
91a1045 O. flavivenata (Hulst, 1898) (Sciagraphia) 6430

Genus HESPERUMIA Packard, 1873
ID INFO: Rindge (1974c).
ULTRALCIS McDunnough, 1920

91a1046 H. sulphuraria Packard, 1873 (Hesperumia) 6431
baltearia (Hulst, 1880) (Rumia)
duaria Cassino & Swett, 1922 (Hesperumia)
ochreata Packard, 1873 (Hesperumia)
unicoloraria (Hulst, 1886) (Rumia)
91a1047 H. fumosaria Comstock, 1937 (Hesperumia) 6432
NOTE: This species was placed in *Hesperumia* as well as *Hypomecis* by Poole & Gentili (1996).
ssp. a. fumosaria Comstock, 1937 (Hesperumia)
ssp. b. impensa Rindge, 1974 (Hesperumia)
91a1048 H. latipennis (Hulst, 1896) (Alcis) 6433
91a1049 H. fumida (Warren, 1904) (Exelis) 6434

Genus AETHALURA McDunnough, 1920
ID INFO: McGuffin (1977).
AETHALOPTERA Hulst, 1896

91a1050 A. intertexta (Walker, 1860) (Boarmia) 6570
ssp. a. intertexta (Walker, 1860) (Boarmia)
anticaria (Walker, 1860) (Tephrosia)
intextata; [various, no date] (Aethalura) missp.
submuraria (Walker, 1860) (Tephrosia)
ssp. b. fumata (Barnes & McDunnough, 1917) (Aethaloptera)

Genus NEOALCIS McDunnough, 1920
ID INFO: McGuffin (1977).

91a1051 N. californiaria (Packard, 1871) (Boarmia) 6435
latifasciaria (Packard, 1873) (Hemerophila)

Genus EMATURGA Lederer, 1853
ID INFO: McGuffin (1977).

91a1052 E. amitaria (Guenée, [1858]) (Fidonia) 6436
faxonii (Minot, 1869) (Fidonia)

Genus HYPOMECIS Hübner, 1821
ID INFO: Rindge (1973b); also Blanchard & Knudson (1984a).
PSEUDOBOARMIA McDunnough, 1920

91a1053 H. luridula (Hulst, 1896) (Alcis) 6437
91a1054 H. buchholzaria (Lemmer, 1937) (Pseudoboarmia) 6438
91a1055 H. umbrosaria (Hübner, [1813]) (Cymatophora) 6439
91a1056 H. gnopharia (Guenée, [1858]) (Boarmia) 6440
91a1057 H. longipectinaria Blanchard & Knudson, 1984 (Hypomecis) [NEW]

Genus PIMAPHERA Cassino & Swett, 1927

91a1058 P. percata Cassino & Swett, 1927 (Pimaphera) 6441
91a1059 P. sparsaria (Walker, [1863]) (Acidalia) 6442

Genus BISTON [Leach, 1815]
ID INFO: Rindge (1975b).
AMPHIDASIS Treitschke, 1825
COCHISEA Barnes & McDunnough, 1916 N. SYN.
NOTE: The species previously segregated into the genus *Cochisea* are closely related to the type-species of *Biston* (*B. betularia*), and when other Eurasian species in the genus are considered, the genetic and morphological variation of *Cochisea* species fall well within the generic limits of *Biston*; *Cochisea* is consequently treated as a junior generic synonym (n. syn.).
EUBYJA Hübner, 1825
PACHYS Hübner, 1822

91a1060 B. betularia (Linnaeus, 1758) (Phalaena) extralim. H 6640
ssp. a. cognataria (Guenée, [1858]) (Amphydasis [sic])
fortitaria (Barnes & McDunnough, 1917) (Amphidasis)
mesle (Forbes, 1928) (Lycia)
swettaria (Barnes & McDunnough, 1917) (Amphidasis)
ssp. b. contrasta (Barnes & Benjamin, 1923) (Amphidasis)
91a1061 B. rigidaria (Barnes & McDunnough, 1916) (Cochisea) N. COMB. 6642
91a1062 B. barnesi (Cassino & Swett, 1922) (Cochisea) N. COMB. 6643
91a1063 B. undulata (Rindge, 1975) (Cochisea) N. COMB. 6644
91a1064 B. paula (Rindge, 1975) (Cochisea) N. COMB. 6645
91a1065 B. unicoloris (Rindge, 1975) (Cochisea) N. COMB. 6646
91a1066 B. sonomensis (McDunnough, 1941) (Cochisea) N. COMB. 6647
abrunnea (McDunnough, 1941) (Cochisea)
91a1067 B. recisa (Rindge, 1975) (Cochisea) N. COMB. 6648
91a1068 B. curva (Rindge, 1975) (Cochisea) N. COMB. 6649
91a1069 B. sinuaria (Barnes & McDunnough, 1916) (Cochisea) N. COMB. 6650

Genus ERANNIS Hübner, 1825
ID INFO: Rindge (1975b).
HYBERNIA Berthold, 1827
LAMPETIA Stephens, 1827

91a1070 E. tiliaria (Harris, 1841) (Hybernia) 6665
coloradata Hulst, 1896 (Erannis)
91a1071 E. vancouverensis Hulst, 1896 (Erannis) [NEW]
NOTE: Raised from subspecies of *E. tiliaria* by Pohl et al. (2015), although it was not noted therein as a new status. Prior to Rindge (1975b), it was treated as part of a Holarctic concept of *E. defoliaria*.
brunneata Cassino & Swett, 1923 (Erannis)
defoliaria of authors; (not Clerck, 1759) (Phalaena) misappl.

Genus HYPAGYRTIS Hübner, 1818
NOTE: Closely related to and probably congeneric with the East Asian genus *Jankowskia* Oberthür, 1884 (Brehm et al. 2019).
AMILAPIS Guenée, [1858]
PARAPHIA Guenée, [1858]

91a1072 H. unipunctata (Haworth, 1809) (Phalaena) 6654
ssp. a. unipunctata (Haworth, 1809) (Phalaena)
deplanaria (Guenée, [1858]) (Paraphia)
exsuperata (Walker, 1863) (Macaria)
fidoniaria (Walker, 1862) (Macaria)
impropriata (Walker, 1861) (Macaria)
mamurraria (Guenée, [1858]) (Paraphia)
nubecularia (Guenée, [1858]) (Paraphia)
pustularia Hübner, 1818 (Hypagyrtis)
subatomaria (Wood, 1839) (Timandra)
triplicipunctata (Fitch, 1860) (Amilapis)
unipunctaria; (Packard, 1876) (Paraphia) emend.
ssp. b. nullaria (Hübner, 1793) (Phalaena)
91a1073 H. esther (Barnes, 1928) (Paraphia) 6655
lemmeri (Barnes, 1928) (Paraphia)
91a1074 H. piniata (Packard, 1870) (Paraphia) 6656
guttata (Hulst, [1901] 1900) (Alcis)
91a1075 H. brendae Heitzman, 1975 (Hypagyrtis) 6657

Genus PHIGALIA Duponchel, 1829
ID INFO: Rindge (1975b).
CONIODES Duponchel, 1829
RHAPHIDODEMAS Hulst, 1896

91a1076 P. titea (Cramer, [1780]) (Phalaena) 6658
cinctaria French, 1878 (Phigalia)
deplorans Franclemont, 1938 (Phigalia)
mephistaria Reiff, 1913 (Phigalia)
nevadaria (Hulst, 1896) (Rhaphidodemas)
revocata Walker, 1863 (Phigalia)
91a1077 P. denticulata Hulst, [1901] 1900 (Phigalia) 6659
91a1078 P. strigataria (Minot, 1869) (Anisopteryx) 6660
olivacearia (Morrison, 1874) (Hybernia)
91a1079 P. plumogeraria (Hulst, 1888) (Boarmia) 6661
immaculariа (Cassino & Swett, 1922) (Coniodes)
plumigeraria; (Hulst, 1888) (Boarmia) emend.

Genus PALEACRITA Riley, 1876
ID INFO: Rindge (1975b).

91a1080 P. vernata (Peck, 1795) (Phalaena) 6662
sericeiferata (Walker, 1863) (Anisopteryx)
speciosa Hulst, 1898 (Paleacrita)
91a1081 P. merriccata Dyar, [1903] (Paleacrita) 6663
91a1082 P. longiciliata Hulst, 1898 (Paleacrita) 6664

Genus LYCIA Hübner, 1825
ID INFO: Rindge (1975b).
MELANOCOMA Harrison, 1910
NYSSIA Duponchel, 1829
POECILOPSIS Harrison, 1910

91a1083 L. ursaria (Walker, 1860) (Biston) 6651

91a1084 L. ypsilon (Forbes, 1885) (Biston) 6652
ssp. a. ypsilon (Forbes, 1885) (Biston)
ssp. b. carlotta (Hulst, 1896) (Nacophora)
91a1085 L. rachelae (Hulst, 1896) (Apocheima) 6653

Tribe CABERINI Duponchel, 1845

Genus CABERA Treitschke, 1825
ID INFO: Rindge (1956).
CABIRA Sodoffsky, 1837
DEILINIA Hübner, 1825
DILINA Agassiz, 1847

91a1086 C. exanthemata (Scopoli, 1763) (Phalaena) extralim. H 6676
ssp. a. bryantaria (Taylor, 1906) (Deilinia)
91a1087 C. erythemaria Guenée, [1858] (Cabera) 6677
ssp. a. erythemaria Guenée, [1858] (Cabera)
incoloraria (Walker, 1863) (Ellopia)
pacificaria (Packard, 1876) (Deilinia)
ssp. b. undularia (Barnes & McDunnough, 1913) (Deilinia)
91a1088 C. variolaria Guenée, [1858] (Cabera) 6678
intentaria Walker, 1861 (Cabera)
91a1089 C. borealis (Hulst, 1896) (Deilinia) 6679
solamata (Hulst, [1901] 1900) (Deilinia)
91a1090 C. quadrifasciaria (Packard, 1873) (Aspilates) 6680
elimaria (Hulst, 1887) (Acidalia)

Genus EUDREPANULATRIX Rindge, 1949
ID INFO: Rindge (1949).

91a1091 E. rectifascia (Hulst, 1896) (Diastictis) 6681
ssp. a. rectifascia (Hulst, 1896) (Diastictis)
ssp. b. erubescens (Warren, 1904) (Lozogramma)

Genus DREPANULATRIX Gumppenberg, 1887
ID INFO: Rindge (1949); also Blanchard & Knudson (1986a).
AETHYCTERA Hulst, 1896

91a1092 D. unicalcararia (Guenée, [1858]) (Tephrina) 6682
behrensaria (Hulst, 1887) (Aspilates)
cervinicolor (Hulst, 1898) (Deilinia)
ida (Hulst, 1896) (Caripeta)
91a1093 D. hulstii (Dyar, 1903) (Catopyrrha) 6683
ssp. a. hulstii (Dyar, 1903) (Catopyrrha)
lenitaria (Grossbeck, 1912) (Deilinia)
ssp. b. carneolata Barnes & McDunnough, 1917 (Drepanulatrix)
ssp. c. verdiaria (Grossbeck, 1912) (Deilinia)
rindgearia Sperry, 1948 (Drepanulatrix)
91a1094 D. bifilata (Hulst, 1880) (Lozogramma) 6684
ssp. a. bifilata (Hulst, 1880) (Lozogramma)
carneata (Warren, 1904) (Lozogramma)
perpallidaria (Grote, 1882) (Thamnonoma)
ssp. b. ella (Hulst, 1896) (Diastictis)
ssp. c. ruthiaria Sperry, 1948 (Drepanulatrix)
91a1095 D. quadraria (Grote, 1882) (Thamnonoma) 6685
ssp. a. quadraria (Grote, 1882) (Thamnonoma)
ssp. b. usta Rindge, 1949 (Drepanulatrix)
91a1096 D. foeminaria (Guenée, [1858]) (Selidosema) 6686
pulveraria (Hulst, 1898) (Deilinia)
91a1097 D. garneri Blanchard & Knudson, 1986 (Drepanulatrix) [NEW]
91a1098 D. nevadaria (Hulst, 1888) (Tephrosia) 6687
91a1099 D. carnearia (Hulst, 1888) (Tephrosia) 6688
ssp. a. carnearia (Hulst, 1888) (Tephrosia)
lutearia Barnes & McDunnough, 1916 (Drepanulatrix)
ssp. b. columbiaria McDunnough, 1939 (Drepanulatrix)
91a1100 D. falcataria (Packard, 1873) (Tephrosia) 6689
electa (Hulst, 1896) (Aethyctera)
91a1101 D. secundaria Barnes & McDunnough, 1916 (Drepanulatrix) 6690
91a1102 D. baueraria Sperry, 1948 (Drepanulatrix) 6691
91a1103 D. monicaria (Guenée, [1858]) (Tephrina) 6692
californiaria (Packard, 1870) (Tephrosia)
celataria (Hulst, 1888) (Tephrosia)
ferruginosaria (Packard, 1870) (Tephrosia)
indurata (Dyar, 1908) (Deilinia)
mercedulata (Strecker, 1899) (Lozogramma)

Genus APODREPANULATRIX Rindge, 1949
ID INFO: Rindge (1949).

91a1104 A. liberaria (Walker, 1860) (Apicia) 6693
helena (Hulst, 1896) (Diastictis)
integraria (Walker, 1861) (Macaria)
lintneraria (Packard, 1874) (Aspilates)
91a1105 A. litaria (Hulst, 1887) (Aspilates) 6694
fumosa (Hulst, 1896) (Deilinia)

Genus IXALA Hulst, 1896

91a1106 I. desperaria (Hulst, 1887) (Aspilates) 6695
ssp. a. desperaria (Hulst, 1887) (Aspilates)
ssp. b. unicoloraria (Hulst, 1888) (Aspilates)
91a1107 I. proutearia Cassino, 1928 (Ixala) 6696
91a1108 I. adventaria Pearsall, 1906 (Ixala) 6698

Genus NUMIA Guenée, 1857
CHLORASPILATES Packard, 1876
NOTE: *Chloraspilates* is a junior synonym of *Numia* (Pitkin 2002).

91a1109 N. terebintharia Guenée, [1858] (Numia) 6699
buxaria Guenée, [1858] (Numia)
diffusa (Walker, 1861) (Geometra)
factaria (Walker, 1861) (Geometra)
particolor (Hulst, 1898) (Diastictis) N. SYN. *[6318]*
NOTE: *Diastictis particolor* is the same species as *Numia terebintharia* based on the holotype specimen (AMNH), and *particolor* is accordingly placed into synonymy (n. syn.). It was previously listed as *Itame particolor* (Macariini) by Ferguson (in Hodges et al. 1983), but not mentioned in the Macariini revision by Ferguson (2008).
subcelata (Walker, 1861) (Geometra)
subvectaria (Walker, 1861) (Geometra)
91a1110 N. bicoloraria (Packard, 1876) (Chloraspilates) 6700
ssp. a. bicoloraria (Packard, 1876) (Chloraspilates)
ssp. b. arizonaria (Grote, 1882) (Chloraspilates)
91a1111 N. minima (Hulst, 1898) (Caberodes) 6701

Genus SPHACELODES Guenée, 1857
NOTE: Pitkin (2002) placed *Sphacelodes* and the tribe Sphacelodini Forbes, 1948 within the context of "Caberini/Baptini"; Brehm et al. (2019) placed Caberini and Baptini into a phylogenetic framework, showing they are unrelated, with *Sphacelodes* belonging to Caberini.

91a1112 S. vulneraria (Hübner, 1823) (Brotis) 6800
floridensis Holland, 1884 (Sphacelodes)
fusilineata (Walker, 1860) (Brotis)
91a1113 S. haitiaria Oberthür, 1923 (Sphacelodes) 6801

Genus PTEROSPODA Dyar, 1903
SPODOPTERA Hulst, 1896

91a1114 P. nigrescens (Hulst, 1898) (Selidosema) 6706
klotsi (Sperry, 1940) (Ixala) *[6697]*
NOTE: Synonymized by Ferris & Schmidt (2011).
91a1115 P. opuscularia (Hulst, 1887) (Aspilates) 6707
91a1116 P. kunzei (Hulst, 1898) (Spodoptera) 6708

Genus STERGAMATAEA Hulst, 1896

91a1117 S. inornata Hulst, 1896 (Stergamataea) 6709
91a1118 S. delicatum (Hulst, 1900) (Selidosema) 6710
ssp. a. delicatum (Hulst, 1900) (Selidosema)
ssp. b. dolliata Grossbeck, 1908 (Stergamataea)

Genus ILEXIA Ferguson, 2009
ID INFO: Ferguson (2009).

91a1119 I. intractata (Walker, [1863]) (Anisodes) 6711
fulva (Warren, 1900) (Petelia)
gausaparia (Grote, 1881) (Aspilates)

Genus PARILEXIA Ferguson, 2009
ID INFO: Ferguson (2009).

91a1120 P. nicetaria Guenée, [1858] (Parilexia) [NEW]
confiniaria (Walker, 1861) (Tephrina)
cyclata (Walker, [1863]) (Fidonia)
liboraria (Walker, [1863]) (Epione)
lucidiferata (Walker, [1863]) (Ephyra)
91a1121 P. antilleata Ferguson, 2009 (Parilexia) [NEW]
91a1122 P. proditata (Walker, 1861) (Ephyra) 6712

Genus COVELLIA Ferguson, 2009
ID INFO: Ferguson (2009).

91a1123 C. procrastinata Ferguson, 2009 (Covellia) [NEW]

Genus EPISEMASIA Hulst, 1896
ID INFO: Ferguson (2009).

91a1124 E. solitaria (Walker, 1861) (Ephyra) 6713
morbosa Hulst, 1896 (Episemasia)
repugnata (Walker, 1863) (Anisodes)
stabilita (Walker, 1861) (Ephyra)
91a1125 E. cervinaria (Packard, 1873) (Caberodes) 6714

Genus CYCLOMIA Guenée, [1858]
AUDIA Walker, 1863
CERASYMPIASTA Möschler, 1890

91a1126 C. mopsaria Guenée, [1858] (Cyclomia) [NEW]
NOTE: Added to the NA fauna based on specimens collected by Jim Troubridge at Upper Key Largo (FL) in 2018. Voucher specimens have been deposited in the CNC and images have been posted on the MPG website.
acontiaria (Walker, 1862) (Omiza)
calidata (Walker, 1862) (Alydda)
costipuncta Warren, 1897 (Cyclomia)
divisata (Walker, [1863]) (Coremia)
ebuleata (Walker, 1862) (Alydda)
eugraphiata (Walker, [1863]) (Fidonia)
iodaria Guenée, [1858] (Cyclomia)
lilacina Warren, 1906 (Cyclomia)
marsitata (Möschler, 1890) (Cerasympiasta)
mixtalis (Walker, 1863) (Audia)
sanata (Möschler, 1890) (Cerasympiasta)
scopulata (Walker, 1862) (Alydda)
turturaria (Walker, 1861) (Macaria)
91a1127 C. alternata Warren, 1900 (Cyclomia) [NEW]
NOTE: Added to the NA fauna based on specimens collected by Jim Troubridge at Upper Key Largo (FL) in 2018. Voucher specimens have been deposited in the CNC and images have been posted on the MPG website.
vinosaria (Hampson, 1901) (Merocausta)

Tribe ALSOPHILINI Herbulot, 1962
ID INFO: McGuffin (1988).

Genus ALSOPHILA Hübner, 1825

91a1128 A. pometaria (Harris, 1841) (Anisopteryx) 6258
NOTE: Now placed in its own tribe, Alsophilini, by Brehm et al. (2019).
autumnata (Packard, 1876) (Anisopteryx)
restituens (Walker, 1860) (Anisopteryx)

Tribe "PROSOPOLOPHINI" Warren, 1894 PROV. PL.; (excl.)
NOTE: Includes Gonodontini Forbes, 1948 as defined by Brehm et al. (2019).

Genus COLOTOIS Hübner, 1823 mispl.; (excl.)
NOTE: *Colotois* appears to be misplaced in Prosopolophini. Murillo-Ramos et al. (2019) found it in a clade with Campaeini – Alsophilini. It is sometimes placed in its own tribe Colotoini Wehrli, 1940.

91a1129E C. pennaria (Linnaeus, 1761) (Phalaena) EXCL. 6795
NOTE: The NA record of this European species was discussed by Schmidt et al. (in Pohl et al. 2018). Based on a single specimen, it is highly doubtful that this species was ever established in NA.

Tribe CAMPAEINI Forbes, 1948

Genus CAMPAEA Lamarck, 1816
ID INFO: McGuffin (1981).
METROCAMPA Bruand, 1846
METROCAMPUS Berthold, 1827

91a1130 C. perlata (Guenée, [1858]) (Metrocampa) 6796
perlaria; (Packard, 1876) (Metrocampa) emend.
praegrandaria (Guenée, [1858]) (Metrocampa)
viridoperlata (Packard, 1873) (Metrocampa)

Tribe EPIRRANTHINI Forbes, 1948
NOTE: The systematic position of *Epirranthis* Hübner, [1823] 1816 (Palaearctic) and its New World relative *Spodolepis* is unresolved (Sihvonen et al 2011). Neither genus was sampled in Brehm et al. (2019). We follow Scoble (1999) and maintain the status of the genus *Spodolepis*, and place it in the Epirranthini following Müller et al. (2019) pending further research.

Genus SPODOLEPIS Hulst, 1896
ID INFO: McGuffin (1981).
JUBARELLA Hulst, 1898

91a1131 S. substriataria Hulst, 1896 (Spodolepis) 6799
91a1132 S. danbyi (Hulst, 1898) (Jubarella) [NEW]
NOTE: Elevated from subspecies of *S. substriataria* to species status based on genitalic morphology and DNA by Schmidt & Anweiler (in Pohl et al. 2010; Appendix).
demorsaria (Strecker, 1899) (Cleora)

Tribe DIPTYCHINI Janse, 1933
ID INFO: Rindge (1986; genera).
NOTE: Lithinini Forbes, 1948 was synonymized with Diptychini by Murillo-Ramos et al. (2019).

Genus PHILEDIA Hulst, 1896
ID INFO: McGuffin (1987).

91a1133 P. punctomacularia (Hulst, 1888) (Cleora) 6802
ssp. a. punctomacularia (Hulst, 1888) (Cleora)
ssp. b. connecta Guedet, 1939 (Philedia)

Genus PETROPHORA Hübner, 1811
LITHINA Hübner, 1825
LOZOGRAMMA Stephens, 1829
ORTHOLITHA Hübner, 1821

91a1134 P. divisata Hübner, [1811] (Petrophora) 6803
extremaria (Walker, 1861) (Lozogramma)
ordinata (Walker, 1862) (Aspilates)
91a1135 P. subaequaria (Walker, 1860) (Lozogramma) 6804
defluaria (Walker, 1861) (Lozogramma)
defluata; [various, no date] (Petrophora) missp.

Genus TACPARIA Walker, 1860
ID INFO: Ferguson (1973).
APAECASIA Hulst, 1896

91a1136 T. zalissaria Walker, 1860 (Tacparia) 6805
darlingtoni (Lemmer, 1937) (Apaecasia)
deductaria (Walker, 1860) (Apicia)
91a1137 T. atropunctata (Packard, 1874) (Lozogramma) 6806
fernaldi (Grote, 1878) (Drepanodes)
91a1138 T. detersata (Guenée, [1858]) (Tephrina) 6807

Genus GUENERIA Packard, 1876
ID INFO: McGuffin (1987).

91a1139 G. similaria (Walker, 1860) (Acidalia) 6815
basiaria (Walker, 1863) (Ellopia)
basiata Packard, 1876 (Gueneria)
congrua (Walker, 1866) (Acidalia)

Genus HOMOCHLODES Hulst, 1896
NOTE: Matson & McGuinness (2023) determined that all *Homochlodes* populations in NA are one species, resulting in the synonymy of *lactispargaria* and *disconventa* with *H. fritillaria*. That research was completed and accepted for publication after the Geometridae species were renumbered for this checklist, so the species numbers 91a1141 and 91a1142 are not used.

91a1140 H. fritillaria (Guenée, [1858]) (Numeria) 6812
disconventa (Walker, 1860) (Tephrosia) *[6813]*
immersata (Walker, 1862) (Ypsipetes)
lactispargaria (Walker, 1861) (Cidaria) *[6811]*

Genus THALLOPHAGA Hulst, 1896
ANTHELIA Hulst, 1896

91a1143 T. taylorata (Hulst, 1896) (Anthelia) 6808
angulata (Warren, 1905) (Sericosema)
perfalcata Smith, 1903 (Thallophaga)
91a1144 T. hyperborea (Hulst, [1901] 1900) (Tetracis) 6809
91a1145 T. nigroseriata (Packard, 1873) (Tephrosia) 6810
fautaria (Hulst, 1888) (Tephrosia)

Tribe BAPTINI Forbes, 1948

Genus LOMOGRAPHA Hübner, 1825
ID INFO: Rindge (1979); also Rindge (1983).
NOTE: Formerly placed in Caberini, but Sihoven et al. (2011) proposed that *Lomographa* be placed in Baptini, a result confirmed by Murillo-Ramos et al. (2019).
BAPTA Stephens, 1829
CORYCIA Duponchel, 1829

91a1146 L. semiclarata (Walker, 1866) (Corycia) 6666
viatica (Harvey, 1874) (Bapta)
91a1147 L. vestaliata (Guenée, [1858]) (Corycia) 6667
91a1148 L. glomeraria (Grote, 1881) (Deilinia) 6668
merricki (Cassino & Swett, 1922) (Bapta)
virginalis (Cassino & Swett, 1923) (Bapta)
91a1149 L. elsinora (Hulst, [1901] 1900) (Orthofidonia) 6669
91a1150 L. glaucina (Rindge, 1961) (Yermoia) N. COMB. 6787
NOTE: Rindge (1983) removed *glaucina* from *Yermoia*, but was uncertain as to its generic placement. DNA barcodes place *glaucina* within NA *Lomographa*, a relationship corroborated by male and female genitalic structure, external morphology and also the very early adult flight period. This taxon is therefore transferred to *Lomographa* (n. comb.).

Genus APLOGOMPHA Warren, 1897
NOTE: *Molybdogompha* and *Trichogompha* were synonymized by Pitkin (2002).
MOLYBDOGOMPHA Warren, 1897
TRICHOGOMPHA Warren, 1897

91a1151 A. polymygmata (Dyar, 1919) (Molybdogompha) [NEW]
NOTE: Added to the NA list by Ferguson (1986).

[ENNOMINAE – Unplaced to Tribe]

NOTE: *Erastria* was previously placed in Caberini (Forbes 1948), but Brehm et al. (2019) recently showed that this genus is well-removed from Caberini and more closely related to *Metarranthis*, which has traditionally been placed in Anagogini (Forbes 1948; McGuffin 1987). However, the core of the Anagogini in the sense of McGuffin (1987), comprising *Plagodis*, *Probole*, and *Metanema*, form a clade removed from *Metarranthis* but including several Old World genera representing the tribal taxa Apeirini Stekolnikov & Kuznetzov, 1982, Epionini Bruand, 1846, and Hypochrosini Guenée, 1858. *Selenia* was placed in Anagogini by Forbes (1948) and McGuffin (1987) and in Ennomini by Vives Moreno (1994). In the only study to date to examine molecular phylogenetic placement, Õunap et al. (2011) resolved *Selenia* as forming a strongly supported sister group to *Cepphis*. Until the tribal classification of the Anagogini-group is resolved we maintain usage of the previous concept for NA Anagogini (McGuffin 1987), but remove *Metarranthis*, *Cepphis*, *Slossonia*, and *Selenia* to uncertain tribal placement (near Palyadini) following Brehm et al. (2019).

Genus ERASTRIA Hübner, 1813
ID INFO: Rindge (1950b).
ACROLEUCA Herrich-Schäffer, 1855
CATOPYRRHA Hübner, 1823
EUCHLIDON Hübner, 1823
SYRRHODIA Hübner, 1823
TROSTHIS Hübner, 1821

91a1152 E. decrepitaria (Hübner, [1823]) (Syrrhodia) extralim. 6702
ssp. a. esperanza (Barnes & McDunnough, 1917) (Catopyrrha)
91a1153 E. viridirufaria (Neumoegen, 1881) (Aspilates) 6703
incarnata (Barnes & McDunnough, 1917) (Sericosema)
91a1154 E. coloraria (Fabricius, 1798) (Phalaena) 6704
accessaria (Hübner, 1831) (Crochiphora)
dissimilaria Hübner, 1813 (Erastria)
olenusaria (Walker, 1863) (Aspilates)
91a1155 E. cruentaria (Hübner, [1799]) (Geometra) 6705
perolivata (Hulst, 1896) (Catopyrrha)
sphaeromacharia (Harvey, 1875) (Crochiphora)

Genus METARRANTHIS Warren, 1894
ID INFO: Rupert (1943).
NOTE: See note under [Ennomini – Unplaced].

91a1156 M. duaria (Guenée, [1858]) (Numeria) 6822
ssp. a. duaria (Guenée, [1858]) (Numeria)
adustaria (Walker, 1866) (Endropia)
septentrionaria Barnes & McDunnough, 1917 (Metarranthis)
ssp. b. hamaria (Guenée, [1858]) (Numeria)
agreasaria (Walker, 1860) (Caberodes)
panisaria (Walker, 1860) (Ellopia)
91a1157 M. angularia Barnes & McDunnough, 1917 (Metarranthis) 6823
91a1158 M. amyrisaria (Walker, 1860) (Ellopia) 6824
franclemonti Rupert, 1943 (Metarranthis)
91a1159 M. indeclinata (Walker, 1861) (Macaria) 6825
91a1160 M. hypochraria (Herrich-Schäffer, [1854]) (Epione) [NEW]
broweri Rupert, 1943 (Metarranthis)
hypocharia; Ferguson, 1983 (Metarranthis) missp. [6826]
91a1161 M. mestusata (Walker, 1860) (Endropia) REV. STAT. [NEW]
NOTE: Previously treated as a junior synonym of *M. hypochraria*, but unpublished research by D. C. Ferguson and BCS indicates that *mestusata* is a valid species and it is raised to species status here (rev. stat.).
91a1162 M. refractaria (Guenée, [1858]) (Endropia) 6827
foedaria (Walker, 1866) (Azelina)
91a1163 M. warneri (Harvey, 1874) (Endropia) [NEW]
ssp. a. warneri (Harvey, 1874) (Endropia)
warnerae; Ferguson, 1983 (Metarranthis) emend. [6821]
ssp. b. cappsaria Rupert, 1943 (Metarranthis)
91a1164 M. homuraria (Grote & Robinson, 1868) (Endropia) 6828
amethystaria (Strecker, 1899) (Endropia)
91a1165 M. lateritiaria (Guenée, [1858]) (Endropia) 6829
91a1166 M. pilosaria (Packard, 1876) (Endropia) 6830
91a1167 M. apiciaria (Packard, 1876) (Endropia) 6831
91a1168 M. obfirmaria (Hübner, [1823]) (Epirrhantes) 6832
91a1169 M. mollicularia (Zeller, 1872) (Epione) 6833

Genus CEPPHIS Hübner, 1823
ID INFO: McGuffin (1987).
NOTE: See note under [Ennomini – Unplaced].
HETRIONE Poppius, 1887
PRIOCYCLA Guenée, [1858]

91a1170 C. decoloraria (Hulst, 1886) (Endropia) 6834
jucundaria (Strecker, 1899) (Endropia)
91a1171 C. armataria (Herrich-Schäffer, [1855]) (Gnophos) 6835

Genus SLOSSONIA Hulst, 1898
NOTE: See note under [Ennomini – Unplaced].

91a1172 S. rubrotincta Hulst, 1898 (Slossonia) 6816

Genus SELENIA Hübner, 1823
ID INFO: McGuffin (1987).
NOTE: See note under [Ennomini – Unplaced].

91a1173 S. alciphearia Walker, 1860 (Selenia) 6817
ornata Barnes & McDunnough, 1914 (Selenia)
perangulata Hulst, 1896 (Selenia)
91a1174 S. kentaria (Grote & Robinson, 1867) (Pericallia) 6818
glaucata Barnes & McDunnough, 1917 (Selenia)

Genus SERICOSEMA Warren, 1895
ID INFO: Rindge (1950a).
NOTE: Tribal placement of this genus is unresolved, falling within a clade that includes most of the genera formerly included in Anagogini as discussed above, but not related to Caberini where *Sericosema* was previously placed (Brehm et al. 2019).
EUEMERA Hulst, 1896

91a1175 S. juturnaria (Guenée, [1858]) (Selidosema) 6672
californiaria (Packard, 1871) (Selidosema)
91a1176 S. immaculata (Barnes & McDunnough, 1913) (Euemera) 6673
ssp. a. immaculata (Barnes & McDunnough, 1913) (Euemera)
ssp. b. argentata Cassino & Swett, 1922 (Sericosema)
91a1177 S. wilsonensis Cassino & Swett, 1922 (Sericosema) 6674
ssp. a. wilsonensis Cassino & Swett, 1922 (Sericosema)
ssp. b. meadowsaria Sperry, 1948 (Sericosema)
ssp. c. macdunnoughi Rindge, 1950 (Sericosema)
91a1178 S. simularia (Taylor, 1906) (Enemera) 6675

Tribe PALYADINI Guenée, [1858]

Genus PHRYGIONIS Hübner, 1825
ID INFO: Scoble (1994).
BYSSODES Guenée, [1858]
CHRYSOTAENIA Herrich-Schäffer, 1855
RATIARIA Walker, 1861

91a1179 P. auriferaria Hulst, 1887 (Phrygionis) 6670
argyrosticta Hampson, 1904 (Phrygionis)
91a1180 P. paradoxata (Guenée, [1858]) (Byssodes) [NEW]
ssp. a. paradoxata (Guenée, [1858]) (Byssodes)
NOTE: This species was listed by Scoble (1994) as a subspecies of the Neotropical species *P. incolorata* Prout, 1910, but subsequently Scoble (1995) realized that *paradoxata* is the older name and takes precedent.
argentata of authors; (not Drury, 1773) (Phalaena) misappl. [6671]

argenteostriata Holland, 1903 (Phrygionis)
cerussaria (Grote, 1882) (Byssodes)
dominica Prout, 1933 (Phrygionis)
fratercula Warren, 1906 (Phrygionis)
gemmea Prout, 1933 (Phrygionis)
obrussata (Grote, 1882) (Byssodes)
sororcula Warren, 1906 (Phrygionis)

91a1181 P. privignaria (Guenée, [1858]) (Byssodes) STRAY [NEW]
NOTE: This Neotropical stray was first reported for NA by Scoble (1994) from TX.
restituta Prout, 1933 (Phrygionis)

Tribe ANAGOGINI Forbes, 1948

Genus PROBOLE Herrich-Schäffer, 1855
ID INFO: McGuffin (1987).
HYPERETIS Guenée, [1858]

91a1182 P. alienaria Herrich-Schäffer, [1855] (Probole) 6837
insinuaria (Guenée, [1858]) (Hyperetis)
nyssaria (Guenée, [1858]) (Hyperetis)
persinuaria (Guenée, [1858]) (Hyperetis)
subsinuaria (Guenée, [1858]) (Hyperetis)

91a1183 P. amicaria (Herrich-Schäffer, [1855]) (Metrocampa) 6838
aesionaria (Walker, 1860) (Selenia)
exsinuaria (Guenée, [1858]) (Hyperetis)
laticincta (Walker, 1861) (Macaria)
neonaria (Walker, 1860) (Azelina)

91a1184 P. nepiasaria (Walker, 1860) (Hyperetis) 6839

Genus PLAGODIS Hübner, 1823
ID INFO: Rupert (1949); McGuffin (1987).
ANAGOGA Hübner, 1823
NOTE: Synonymy by Scoble (1999).
AZINEPHORA Stephens, 1827
EURYMENA Duponchel, 1829
NUMERIA Duponchel, 1829

91a1185 P. serinaria Herrich-Schäffer, [1855] (Plagodis) 6840
floscularia Grote, 1881 (Plagodis)
rosaria (Grote, 1876) (Eurymene)
subprivata (Walker, 1863) (Ellopia)

91a1186 P. kuetzingi (Grote, 1876) (Eurymene) 6841
nigrescaria Hulst, 1887 (Plagodis)

91a1187 P. phlogosaria (Guenée, [1858]) (Eurymene) 6842
ssp. a. phlogosaria (Guenée, [1858]) (Eurymene)
altruaria Pearsall, 1907 (Plagodis)
intermediaria Barnes & McDunnough, 1917 (Plagodis)
ssp. b. bowmanaria Munroe, 1959 (Plagodis)
ssp. c. iris Rupert, 1949 (Plagodis)
ssp. d. approximaria Dyar, 1899 (Plagodis)
ssp. e. keutzingaria Packard, 1876 (Plagodis)
ssp. f. purpuraria Pearsall, 1907 (Plagodis)
schuylkillensis Grossbeck, 1908 (Plagodis)
ssp. g. illinoiaria Munroe, 1959 (Plagodis)

91a1188 P. pulveraria (Linnaeus, 1758) (Phalaena) extralim. H [NEW]
ssp. a. occiduaria (Walker, 1861) (Numeria) [6836]
NOTE: Treated as a subspecies of *P. pulveraria* following Scoble (1999).
californiaria (Packard, 1871) (Ellopia)
plagifasciata (Walker, 1863) (Ellopia)

91a1189 P. fervidaria (Herrich-Schäffer, [1855]) (Eurymene) 6843
arrogaria (Hulst, 1886) (Eurymene)
emargataria (Guenée, [1858]) (Eurymene)
excavaria (Morrison, 1873) (Eurymene)

91a1190 P. alcoolaria (Guenée, [1858]) (Eurymene) 6844
ssp. a. alcoolaria (Guenée, [1858]) (Eurymene)
ssp. b. kempii Hulst, [1901] 1900 (Plagodis)

Genus METANEMA Guenée, 1857

91a1191 M. inatomaria Guenée, [1858] (Metanema) 6819

91a1192 M. determinata Walker, 1866 (Metanema) 6820
carnaria (Packard, 1873) (Caberodes)

91a1193 M. brunneilinearia Grossbeck, 1907 (Metanema) 6962
NOTE: Placement in *Metanema* follows Ferris (2009b).

Tribe GNOPHINI Duponchel, 1845

NOTE: Following Sihvonen & Skou (2015) and Murillo-Ramos et al. (2019), Angeronini Forbes, 1948 is a junior synonym of Gnophini.

Genus ASPITATES Treitschke, 1825
ID INFO: McGuffin (1981).
ASPILATES; Treitschke, 1827 missp.
NAPUCA Walker, 1863
PSEUDOSIONIA Butler, 1893

91a1194 A. aberrata (Edwards, 1884) (Phasiane) 6715
ssp. a. aberrata (Edwards, 1884) (Phasiane)
ssp. b. assiniboiarius Munroe, 1963 (Aspilates [sic])

91a1195 A. forbesi Munroe, 1963 (Aspilates [sic]) 6716

91a1196E A. ochrearia (Rossi, 1794) (Phalaena) EXCL. [NEW]
NOTE: This species has been reported in error for NA, based on the "Arizona" TL of synonym *laetula*; that is thought to be erroneous as this species is otherwise restricted to the Old World. The taxon *laetula* was erroneously listed twice by Pohl et al. (2016), here and as an excluded species in the original genus *Nyctiphanta* Hulst, 1896.
laetula (Hulst, 1896) (Nyctiphanta) (excl.) [6814]

91a1197 A. orciferaria (Walker, [1863]) (Napuca) 6717
ssp. a. orciferaria (Walker, [1863]) (Napuca)
ssp. b. baffinensis Munroe, 1963 (Aspilates [sic])
ssp. c. churchillensis Munroe, 1963 (Aspilates [sic])
ssp. d. occidentalis Munroe, 1963 (Aspilates [sic])

91a1198 A. conspersarius Staudinger, 1901 (Aspilates [sic]) 6718

91a1199 A. taylori (Butler, 1893) (Pseudosiona) [NEW]
ssp. a. taylori (Butler, 1893) (Pseudosiona)
taylorae; Ferguson, 1983 (Aspitates) emend. [6719]
ssp. b. siberica Djakonov, 1955 (Aspitates)

Genus LYTROSIS Hulst, 1896
ID INFO: Rindge (1971).

91a1200 L. unitaria (Herrich-Schäffer, 1854) (Boarmia) 6720

91a1201 L. sinuosa Rindge, 1971 (Lytrosis) 6721

91a1202 L. heitzmanorum Rindge, 1971 (Lytrosis) 6722

91a1203 L. permagnaria (Packard, 1876) (Stenotrachelys) 6723

Genus EUCHLAENA Hübner, 1823

91a1204 E. serrata (Drury, 1773) (Phalaena) 6724
concisaria (Walker, 1866) (Ennomos)

91a1205 E. muzaria (Walker, 1860) (Endropia) 6725

91a1206 E. obtusaria (Hübner, [1813]) (Geometra) 6726
decisaria (Walker, 1860) (Clysia)
incisaria (Walker, 1866) (Endropia)

91a1207 E. silacea Rindge, 1958 (Euchlaena) 6727

91a1208 E. effecta (Walker, 1860) (Endropia) 6728
clementina (Gumppenberg, 1895) (Eutrapela)
effectaria (Walker, 1863) (Endropia)

91a1209 E. johnsonaria (Fitch, 1869) (Priocycla) 6729
ssp. a. johnsonaria (Fitch, 1869) (Priocycla)
bilinearia (Packard, 1870) (Priocycla)
ssp. b. minoraria (Hulst, 1886) (Endropia)

91a1210 E. mollisaria (Hulst, 1886) (Endropia) 6730
occantaria (Hulst, 1886) (Endropia)

91a1211 E. madusaria (Walker, 1860) (Endropia) 6731
ssp. a. madusaria (Walker, 1860) (Endropia)
oponearia (Walker, 1860) (Endropia)
tiviaria (Walker, 1860) (Endropia)
vinosaria (Grote & Robinson, 1867) (Endropia)
vinulentaria (Grote & Robinson, 1867) (Endropia)
ssp. b. ochrearia McDunnough, 1940 (Euchlaena)

91a1212 E. deplanaria (Walker, [1863]) (Ellopia) 6732

91a1213 E. amoenaria (Guenée, [1858]) (Endropia) 6733
ssp. a. amoenaria (Guenée, [1858]) (Endropia)
arefactaria (Grote & Robinson, 1867) (Endropia)
ssp. b. astylusaria (Walker, 1860) (Endropia)

91a1214 E. marginaria (Minot, 1869) (Caberodes) 6734
albertanensis Swett, 1917 (Euchlaena)
marginata; [various, no date] (Euchlaena) missp.

91a1215 E. deductaria (Walker, 1860) (Endropia) H [NEW]
NOTE: Previously referred to as *E. pectinaria*, but Heppner (2004) determined that the latter name applies to the European species *Odontopera bidentata* Clerck, 1759, so *E. deductaria* becomes the valid name.
pectinaria of authors; (not [Denis & Schiffermüller], 1775) (Geometra) misappl. [6735]

91a1216 E. manubiaria (Hulst, 1886) (Endropia) 6736

91a1217 E. tigrinaria (Guenée, [1858]) (Endropia) 6737

ssp. a. tigrinaria (Guenée, [1858]) (Endropia)
propriaria (Walker, 1860) (Endropia)
ssp. b. sirenaria (Strecker, 1899) (Endropia)
abnormalis Hulst, [1901] 1900 (Euchlaena)
91a1218 E. milnei McDunnough, 1945 (Euchlaena) 6738
91a1219 E. irraria (Barnes & McDunnough, 1917) (Caberodes) 6739

Genus XANTHOTYPE Warren, 1894
ID INFO: Rindge (1978b).

91a1220 X. urticaria Swett, 1918 (Xanthotype) 6740
turbidaria Swett, 1918 (Xanthotype)
vagaria Swett, 1918 (Xanthotype)
watsoni Swett, 1918 (Xanthotype)
91a1221 X. barnesi Swett, 1918 (Xanthotype) 6741
91a1222 X. rufaria Swett, 1918 (Xanthotype) 6742
91a1223 X. sospeta (Drury, 1773) (Phalaena) 6743
caelaria (Hulst, 1886) (Angerona)
citrinaria (Hübner, 1824) (Therapis)
crocataria (Fabricius, 1798) (Phalaena)
manitobensis Swett, 1918 (Xanthotype)
marylandensis Swett, 1918 (Xanthotype)
91a1224 X. attenuaria Swett, 1918 (Xanthotype) 6744

Genus CYMATOPHORA Hübner, 1812
STENOTRACHELYS Guenée, [1858]

91a1225 C. approximaria Hübner, [1812] (Cymatophora) 6745

Genus CHARISSA Curtis, 1826
ID INFO: Smiles (1979).
NOTE: See note under *C. turfosaria*. *Hyposcotis* is considered a suppressed senior name, although the case is still under consideration by the ICZN (Müller et al. 2019).
HYPOSCOTIS Hübner, 1825

Subgenus DYSGNOPHOS Wehrli, 1951

91a1226 C. turfosaria (Wehrli, 1922) (Gnophos) H [NEW]
NOTE: This taxon was previously known in NA as *Gnophos macguffini*, but research on this group of mostly Asian genera has shown that *macguffini* is actually a more widespread Holarctic tundra species to which the older name *turfosaria* applies. Furthermore, study of the related genera has shown that *turfosaria* belongs in the genus *Charissa* (subgenus *Dysgnophos*), not *Gnophos* Treitschke, 1825 (Müller et al. 2019).
benepunctaria (Wehrli, 1922) (Gnophos)
exelis (Wehrli, 1922) (Gnophos)
glaciata (Wehrli, 1922) (Gnophos)
macguffini (Smiles, 1978) (Gnophos) *[6596]*
mcguffini; (Viidalepp, 1996) (Gnophos) missp.

Tribe ODONTOPERINI Duponchel, 1845

NOTE: Brehm et al. (2019) found that Azelinini Forbes, 1948 was nested within Odontoperini and so is a junior synonym.

Genus NEMERIS Rindge, 1981
ID INFO: Rindge (1981).
NOTE: Nemeris was transferred to Odontoperini by Brehm et al. (2019), confirming earlier suspicions that it is unrelated to *Meris* (Rindge 1981).

91a1227 N. percne Rindge, 1981 (Nemeris) 6876.1
91a1228 N. speciosa (Hulst, 1896) (Diastictis) 6876
albocrenulata (Cassino, 1927) (Meris)
91a1229 N. sternitzkyi Rindge, 1981 (Nemeris) 6876.2

Genus PERO Herrich-Schäffer, 1855
ID INFO: Poole (1987); also Ferris (2003).
AZELINA Guenée, [1858]
AZELINOPSIS Warren, 1896
EGABRA Walker, 1858
EUSENEA Walker, 1860
MARMAREA Hulst, 1896
METIDULODES Guenée, [1858]
PERGAMA Herrich-Schäffer, 1855
STENASPILATES Packard, 1876
STENASPILATODES Franclemont & Poole, 1972
N. SYN.
NOTE: *Stenaspilatodes* was erected as a monotypic genus for the taxon *antidiscaria*, historically placed in the genus *Pergama* (now a synonym of *Pero*). Franclemont & Poole (1972) diagnosed the genus as being closely related to *Pero*, but lacking the costal fold of the male valve; *Stenaspilatodes* was not mentioned in Poole's (1987) revision of *Pero*. Although the male genitalia are structurally less complex than many *Pero* species, *antidiscaria* is otherwise very similar to *Pero* species in morphology and DNA variation, and *antidiscaria* is here returned to *Pero* (n. comb.), resulting in the junior synonymy of *Stenaspilatodes* (n syn.).
STENODONTA Warren, 1905
SYNEMIA Guenée, [1858]

Pero group 1 Poole, 1987

1230 P. antidiscaria (Walker, 1860) (Caberodes) N. COMB. 6746
NOTE: See note above under *Stenaspilatodes*.
lentaria (Hulst, 1886) (Endropia)
91a1231 P. meskaria (Packard, 1876) (Stenaspilates) 6747
albidula (Hulst, 1900) (Stenaspilates)
albomacularia (Edwards, 1882) (Azelina)
arizonaria (Edwards, 1882) (Azelina)
muricolor (Hulst, 1896) (Stenaspilates)
91a1232 P. astapa (Druce, 1892) (Azelina) 6748
egregiata (Pearsall, 1906) (Stenaspilates)
91a1233 P. radiosaria (Hulst, 1886) (Azelina) 6749
apapinaria (Dyar, 1908) (Stenaspilates)
fulvata (Warren, 1905) (Azelina)
metzaria (Dyar, 1909) (Stenaspilates)
muricolor Warren, 1900 (Pero)
rectissima (Dyar, 1910) (Stenaspilates)
91a1234 P. inviolata (Hulst, 1898) (Stenaspilates) 6750
levisaria (Grossbeck, 1909) (Stenaspilates)
91a1235 P. pima Poole, 1987 (Pero) [NEW]
91a1236 P. flavisaria (Grossbeck, 1906) (Stenaspilates) 6751
provoensis Cassino & Swett, 1922 (Pero)
91a1237 P. zalissaria (Walker, 1860) (Azelina) 6752
91a1238 P. ancetaria (Hübner, 1806) (Gonodontis) [NEW]
barnesi Cassino & Swett, 1922 (Pero)
hubneraria (Guenée, [1858]) (Azelina) *[6754]*
NOTE: Synonymized by Scoble (1999).
marmoratus Grossbeck, 1910 (Pero)

Pero group 4 Poole, 1987

91a1239 P. nerisaria (Walker, 1860) (Azelina) 6762
atrocolorata (Hulst, 1886) (Azelina)
curvistrigaria Herrich-Schäffer, 1870 (Pero)
vetustaria (Walker, 1866) (Azelina)
91a1240 P. lastima Poole, 1987 (Pero) [NEW]

Pero group 6 Poole, 1987

91a1241 P. honestaria (Walker, 1860) (Azelina) 6753
dyari Cassino & Swett, 1922 (Pero)
stygiaria (Walker, 1866) (Azelina)
91a1242 P. morrisonaria (Edwards, 1881) (Azelina) 6755
91a1243 P. giganteus Grossbeck, 1910 (Pero) 6756
91a1244 P. mizon Rindge, 1955 (Pero) 6757
91a1245 P. macdunnoughi Cassino & Swett, 1922 (Pero) 6758
91a1246 P. catalina Poole, 1987 (Pero) [NEW]
91a1247 P. modestus Grossbeck, 1910 (Pero) 6759
grossbecki Pearsall, 1911 (Pero)
91a1248 P. behrensaria (Packard, 1871) (Azelina) 6760
ssp. a. behrensaria (Packard, 1871) (Azelina)
behrensata; (Packard, 1878) (Azelina) emend.
blackmorei Cassino & Swett, 1922 (Pero)
modocata (Cassino & Swett, 1922) (Azelina)
smithii (Grossbeck, 1906) (Azelina)
splendorata Cassino & Swett, 1922 (Pero)
vanduzeeata (Wright, 1921) (Azelina)
ssp. b. daulus Rindge, 1955 (Pero)
ssp. c. sperryi Rindge, 1955 (Pero)
91a1249 P. washakiensis Ferris, 2003 (Pero) [NEW]
NOTE: This recently described species was missed by Pohl et al. (2016).
91a1250 P. occidentalis (Hulst, 1896) (Marmarea) 6761
ssp. a. occidentalis (Hulst, 1896) (Marmarea)
ssp. b. canaster Rindge, 1955 (Pero)
ssp. c. helvus Rindge, 1955 (Pero)
colorado Grossbeck, 1910 (Pero)
packardi Cassino & Swett, 1922 (Pero)
patriciata Cassino & Swett, 1925 (Pero)
peplarioides (Hulst, 1898) (Marmarea)

Tribe NACOPHORINI Forbes, 1948

ID INFO: Rindge (1983; genera).

Genus PHAEOURA Hulst, 1896
ID INFO: Rindge (1961a).
NACOPHORA Hulst, 1896

91a1251 P. quernaria (Smith, 1797) (Phalaena) 6763
atrescens (Hulst, 1898) (Nacophora)
cupidaria (Grote, 1864) (Amphidasys)
paenulataria (Grote, 1863) (Amphidasys)
phigaliaria (Guenée, [1858]) (Synopsia)
sperataria (Walker, 1860) (Amphidasys)
91a1252 P. cristifera Hulst, 1896 (Phaeoura) 6764
91a1253 P. kirkwoodi Rindge, 1961 (Phaeoura) 6765
91a1254 P. mexicanaria (Grote, 1883) (Eubyja) 6766
magnificans Dyar, 1923 (Phaeoura)
triaria Barnes & McDunnough, 1917 (Phaeoura)
91a1255 P. belua Rindge, 1961 (Phaeoura) 6767
91a1256 P. perfidaria Barnes & McDunnough, 1917 (Phaeoura) 6768
91a1257 P. utahensis Cassino & Swett, 1923 (Phaeoura) 6769
91a1258 P. aetha Rindge, 1961 (Phaeoura) 6770
91a1259 P. cana Rindge, 1961 (Phaeoura) 6771

Genus THYRINTEINA Möschler, 1890
ID INFO: Rindge (1961a).

91a1260 T. arnobia (Stoll, in: Cramer, [1782]) (Phalaena) extralim. 6772
ssp. a. phala Rindge, 1961 (Thyrinteina)

Genus HOLOCHROA Hulst, 1896
ID INFO: Rindge (1961a).
GLODURIA Dyar, 1924

91a1261 H. dissociarius (Hulst, 1887) (Tornos) 6773
ssp. a. dissociarius (Hulst, 1887) (Tornos)
ssp. b. varia Rindge, 1961 (Holochroa)

Genus AETHALOIDA McDunnough, 1920
AETHALODES Hulst, 1896

91a1262 A. packardaria (Hulst, 1888) (Hemerophila) 6774
homopteroides (Hulst, [1901] 1900) (Selidosema)
lachrymosa (Hulst, 1898) (Selidosema)

Genus HEMIMORINA McDunnough, 1941

91a1263 H. dissociata McDunnough, 1941 (Hemimorina) 6775

Genus HEMNYPIA McDunnough, 1941

91a1264 H. baueri McDunnough, 1941 (Hemnypia) 6776

Genus PAREXCELSA Pearsall, 1912

91a1265 P. ultraria Pearsall, 1912 (Parexcelsa) 6777

Genus CERATONYX Guenée, 1857
ID INFO: Rindge (1975a).
STENOCHARIS Grossbeck, 1912

91a1266 C. arizonensis (Capps, 1950) (Stenocharis) 6778
91a1267 C. permagnaria (Grossbeck, 1912) (Stenocharis) 6779
91a1268 C. satanaria Guenée, [1858] (Ceratonyx) 6780
candida (Smith, 1890) (Stenocharis)

Genus YERMOIA McDunnough, 1940
ID INFO: Rindge (1961c).

91a1269 Y. perplexata McDunnough, 1940 (Yermoia) 6786

Genus ANIMOMYIA Dyar, 1908
ID INFO: Rindge (1974b).
GRAEFIA Pearsall, 1910

91a1270 A. smithii (Pearsall, 1910) (Graefia) 6788
ssp. a. smithii (Pearsall, 1910) (Graefia)
ssp. b. magna Rindge, 1974 (Animomyia)
ssp. c. nigris (Cassino & Swett, 1923) (Graefia)
91a1271 A. dilatata Rindge, 1974 (Animomyia) 6789
91a1272 A. hardwicki Rindge, 1974 (Animomyia) 6790
91a1273 A. morta Dyar, 1908 (Animomyia) 6791
increscens Dyar, 1923 (Animomyia)
91a1274 A. turgida Rindge, 1974 (Animomyia) 6792
91a1275 A. nuda Rindge, 1974 (Animomyia) 6793
91a1276 A. minuta Rindge, 1974 (Animomyia) 6794

Genus CHIRICAHUA Ferris, 2010
ID INFO: Ferris (2010a).

91a1277 C. lichenaria Ferris, 2010 (Chiricahua) [NEW]
91a1278 C. multidentata (Guedet, 1941) (Amphidasis) 6641

Genus GABRIOLA Taylor, 1904
ID INFO: Rindge (1974a).

91a1279 G. dyari Taylor, 1904 (Gabriola) 6781
ssp. a. dyari Taylor, 1904 (Gabriola)
ssp. b. pruina Rindge, 1974 (Gabriola)
ssp. c. bakeri Rindge, 1974 (Gabriola)
91a1280 G. sierrae McDunnough, 1945 (Gabriola) 6782
ssp. a. sierrae McDunnough, 1945 (Gabriola)
ssp. b. australis Rindge, 1974 (Gabriola)
ssp. c. baliola Rindge, 1974 (Gabriola)
91a1281 G. minima (Hulst, 1896) (Nacophora) 6783
bidisata (Dyar, 1903) (Chesiadodes)
91a1282 G. minor Rindge, 1974 (Gabriola) 6784
91a1283 G. regularia McDunnough, 1945 (Gabriola) 6785

Tribe ENNOMINI Duponchel, 1845

NOTE: Brehm et al. (2019) synonymized Ourapterygini with Ennomini.

Genus SICYA Guenée, 1857
NOTE: This genus was placed in the Ourapterygini Bruand, 1846 by Ferguson (in Hodges et al. 1983), and given unknown tribal status by Pitkin (2002). It is here placed in Ennomini based on the results of Brehm et al. (2019).

91a1284 S. crocearia Packard, 1873 (Sicya) 6911
91a1285 S. macularia (Harris, 1850) (Geometra) 6912
ssp. a. macularia (Harris, 1850) (Geometra)
agyllaria (Walker, 1860) (Epione)
calipusaria (Walker, 1860) (Epione)
faustinaria Strecker, 1899 (Sicya)
solfataria Guenée, [1858] (Sicya)
sublimaria Guenée, [1858] (Sicya)
truncataria Guenée, [1858] (Sicya)
ssp. b. cruzensis Dyar, 1922 (Sicya)
ssp. c. lewisi Swett, 1914 (Sicya)
91a1286 S. laetula Barnes & McDunnough, 1917 (Sicya) 6913
91a1287 S. pergilvaria Barnes & McDunnough, 1917 (Sicya) 6914
91a1288 S. morsicaria (Hulst, 1886) (Tetracis) 6915
snoviaria (Hulst, 1888) (Heterolocha)
91a1289 S. olivata Barnes & McDunnough, 1916 (Sicya) 6916
subviridis Cassino & Swett, 1922 (Sicya)

Genus SICYOPSIS Ferguson, 1983
ID INFO: Ferguson (1983).

91a1290 S. blanchardata Ferguson, 1983 (Sicyopsis) [NEW]

Genus MELEMAEA Hulst, 1896
NOTE: DNA barcode data indicate that *Melemaea* is closely related to and possibly congeneric with *Sicya*, which is corroborated by genitalic morphology. A review of NA *Sicya* is needed.

91a1291 M. magdalena Hulst, 1896 (Melemaea) 6855
91a1292 M. virgata Taylor, 1906 (Melemaea) 6856

Genus EUSARCA Hübner, 1813
APICIA Guenée, [1858]

91a1293 E. falcata (Packard, 1873) (Eutrapela) 6927
91a1294 E. terraria (McDunnough, 1940) (Apicia) 6928
91a1295 E. argillaria (Hulst, 1886) (Metanema) 6929
91a1296 E. galbanaria (Hulst, 1886) (Caberodes) 6930
91a1297 E. detractaria (Barnes & McDunnough, 1916) (Euchlaena) 6931
91a1298 E. lutzi Wright, 1920 (Eusarca) 6932
91a1299 E. fundaria (Guenée, [1858]) (Apicia) 6933
arbuaria (Walker, 1860) (Apicia)
basifusata (Walker, 1863) (Caberodes)
carcearia (Walker, 1860) (Caberodes)
effascinaria (Hulst, 1886) (Drepanodes)
eldanaria (Walker, 1860) (Caberodes)

impexaria (Guenée, [1858]) (Apicia)
incopularia (Guenée, [1858]) (Apicia)
juncturaria (Guenée, [1858]) (Apicia)
thasusaria (Walker, 1860) (Gynopteryx)

91a1300 E. subflavaria (Pearsall, 1906) (Gonodontis) 6934
91a1301 E. packardaria (McDunnough, 1940) (Apicia) 6936
cayennaria of authors; (not Guenée, [1858]) (Apicia) misappl.
distycharia of authors; (not Guenée, [1858]) (Apicia) misappl. *[6935]*
NOTE: The species *E. distycharia* was excluded from the NA fauna by McDunnough (1940), who described *E. packardaria* for specimens previously determined as *E. distycharia* or *E. cayennaria*. That appears to have been overlooked by Ferguson (in Hodges et al. 1983).
91a1302 E. venosaria (McDunnough, 1940) (Apicia) 6937
91a1303 E. subcineraria (Grossbeck, 1908) (Gonodontis) 6938
91a1304 E. geniculata (Hulst, 1886) (Tetracis) 6939
91a1305 E. tibiaria (McDunnough, 1940) (Apicia) 6940
91a1306 E. confusaria Hübner, [1813] (Eusarca) 6941
floridaria (Guenée, [1858]) (Caberodes)
imbraria (Guenée, [1858]) (Caberodes)
ineffusaria (Guenée, [1858]) (Caberodes)
interlinearia (Guenée, [1858]) (Caberodes)
majoraria (Guenée, [1858]) (Caberodes)
metrocamparia (Guenée, [1858]) (Caberodes)
mimaria (Hulst, 1886) (Caberodes)
pandaria (Walker, 1860) (Tetracis)
phasianaria (Guenée, [1858]) (Caberodes)
remissaria (Guenée, [1858]) (Caberodes)
subochrearia (Hulst, 1900) (Caberodes)
superaria (Guenée, [1858]) (Caberodes)
91a1307 E. graceiaria (Kirkwood, 1951) (Apicia) 6942

Genus SOMATOLOPHIA Hulst, 1896
ID INFO: Rindge (1980).

91a1308 S. desolata Rindge, 1980 (Somatolophia) 6943
91a1309 S. montana Rindge, 1980 (Somatolophia) 6944
91a1310 S. ectrapelaria (Grossbeck, 1908) (Gonodontis) 6945
91a1311 S. pallescens McDunnough, 1940 (Somatolophia) 6946
obliterata Warren, 1904 (Somatolophia)
91a1312 S. haydenata (Packard, 1876) (Gnophos) 6947
umbripennis Hulst, 1896 (Somatolophia)
91a1313 S. cuyama Comstock, 1940 (Somatolophia) 6948.4
91a1314 S. incana Rindge, 1980 (Somatolophia) 6948
91a1315 S. petila Rindge, 1980 (Somatolophia) 6948.2
91a1316 S. vatia Rindge, 1980 (Somatolophia) 6948.1
91a1317 S. simplicius (Barnes & McDunnough, 1918) (Gonodontis) 6948.3

Genus NEOTERPES Hulst, 1896

91a1318 N. ephelidaria (Hulst, 1886) (Heterolocha) 6859
kunzei Hulst, 1898 (Neoterpes)
91a1319 N. trianguliferata (Packard, 1871) (Tetracis) 6860
ssp. a. trianguliferata (Packard, 1871) (Tetracis)
notataria (Hulst, 1886) (Tetracis)
ssp. b. costimacula (Warren, 1901) (Epiplatymetra)
91a1320 N. edwardsata (Packard, 1871) (Heterolocha) 6861
91a1321 N. graefiaria (Hulst, 1887) (Lozogramma) 6862

Genus PLATAEA Herrich-Schäffer, 1855
ID INFO: Rindge (1976); also Knudson (1986b), Ferris & McFarland (2010).
APICRENA Pearsall, 1911
GORYTODES Guenée, [1858]

91a1322 P. calcaria (Pearsall, 1911) (Apicrena) 6921
dulcinia Dyar, 1923 (Plataea)
triangularia Barnes & McDunnough, 1916 (Plataea)
91a1323 P. personaria (Edwards, 1881) (Gorytodes) 6922
lessaria Pearsall, 1907 (Plataea)
pasadenaria Wright, 1917 (Plataea)
91a1324 P. ursaria Cassino & Swett, 1922 (Plataea) 6923
91a1325 P. californiaria Herrich-Schäffer, [1856] (Plataea) 6924
uncanaria (Guenée, [1858]) (Gorytodes)
91a1326 P. diva Hulst, 1896 (Plataea) 6925
91a1327 P. trilinearia (Packard, 1873) (Gorytodes) 6926
astrigaria Barnes & McDunnough, 1918 (Plataea)
dulciaria (Grote, 1880) (Gorytodes)
91a1328 P. blanchardaria Knudson, 1986 (Plataea) [NEW]
91a1329 P. polychroma Ferris & McFarland, 2010 (Plataea) [NEW]

Genus PHERNE Hulst, 1896
CTENOTETRACIS Warren, 1894 nomen oblitum
NOTE: *Ctenotetracis* was described without any species being assigned to it, and it has not been used in the literature since, rendering it a nomen oblitum following the ICZN.

91a1330 P. placeraria (Guenée, [1858]) (Ellopia) 6949
mellitularia (Hulst, 1886) (Tetracis)
91a1331 P. parallelia (Packard, 1873) (Tetracis) 6950
paralleliaria; (Packard, 1876) (Tetracis) emend.
91a1332 P. sperryi McDunnough, 1935 (Pherne) 6951
91a1333 P. subpunctata (Hulst, 1898) (Metanema) 6952
ssp. a. subpunctata (Hulst, 1898) (Metanema)
ssp. b. vernalaria Wright, 1917 (Pherne)

Genus ERIPLATYMETRA Grote, 1873
EPIPLATYMETRA; Hulst, 1896 missp.

91a1334 E. coloradaria (Grote & Robinson, 1867) (Ennomos) 6852
91a1335 E. lentifluata Barnes & McDunnough, 1917 (Eriplatymetra) 6853
91a1336 E. grotearia (Packard, 1876) (Tetracis) 6854
angularia (Grossbeck, 1908) (Euemera)
vidularia (Grote, 1882) (Eugonia)

Genus LYCHNOSEA Grote, 1883

91a1337 L. helveolaria (Hulst, 1881) (Endropia) 6857
aululария Grote, 1883 (Lychnosea)
runcinaria Strecker, 1899 (Lychnosea)
91a1338 L. intermicata (Walker, 1862) (Aspilates) 6858
interminaria (Grote, 1877) (Aspilates)
pervaria (Packard, 1873) (Aspilates)

Genus CARIPETA Walker, 1863

91a1339 C. divisata Walker, [1863] (Caripeta) 6863
albopunctata (Morrison, 1874) (Cidaria)
nigraria Forbes, 1924 (Caripeta)
91a1340 C. piniata (Packard, 1870) (Parennomos) 6864
seductaria Strecker, 1899 (Caripeta)
91a1341 C. aequaliaria Grote, 1883 (Caripeta) 6865
91a1342 C. suffusata Guedet, 1939 (Caripeta) 6865.1
91a1343 C. interalbicans Warren, 1904 (Caripeta) 6866
91a1344 C. angustiorata Walker, [1863] (Caripeta) 6867
criminosa Swett, 1906 (Caripeta)
91a1345 C. latiorata Walker, [1863] (Caripeta) 6868
91a1346 C. aretaria (Walker, 1860) (Azelina) 6869
subochrearia Grote, 1883 (Caripeta)
91a1347 C. pulcherrima (Guedet, 1941) (Lygris) 6870
waltonaria (Sperry, 1949) (Azelina)
91a1348 C. canidiaria (Strecker, 1899) (Endropia) 6872
91a1349 C. ocellaria (Grossbeck, 1907) (Gonodontis) 6873
91a1350 C. macularia (Barnes & McDunnough, 1916) (Gonodontis) 6874
91a1351 C. triangulata (Barnes & McDunnough, 1916) (Sabulodes) 6957
NOTE: Placement in *Caripeta* follows Ferris (2009a).

Genus NEOSELENIA Pitkin, 2002

91a1352 N. hilumaria (Hulst, 1886) (Endropia) 6871
NOTE: This species was transferred from *Caripeta* to *Neoselenia* by Pitkin (2002), but that had been overlooked in recent NA checklists as well as the LepIndex (contributed by Ivonne Garzón).

Genus SNOWIA Neumoegen, 1884

91a1353 S. montanaria Neumoegen, 1884 (Snowia) 6875

Genus RINDGERIA Heppner, 2010
ID INFO: Heppner (2010b).
NOTE: This genus was described by Heppner (2010b) to accommodate "*Pityeja" picta* (Schaus, 1898), extralimital north of Mexico, and "*Pityeja" ornata* (Rindge, 1958), both previously determined to be unrelated to the genus *Pityeja* Walker, 1861 by Scoble (1994). Based on morphological and DNA barcode affinities, *Rindgeria* is here placed near the *Besma* group of genera of the Ennomini.

91a1354 R. ornata (Rindge, 1958) (Pityeja) 6984
picta of authors; (not Schaus, 1898) (Pityeja) misappl.

Genus PIONENTA Ferris, 2010
ID INFO: Ferris (2010c).

91a1355 P. ochreata (Hulst, 1898) (Eugonobapta) 6992
arizonata (Taylor, 1906) (Sabulodes)
dyari (Grossbeck, 1908) (Sabulodes)
hewesata (Sperry, 1948) (Antepione) *[6993]*
ligata (Grossbeck, 1908) (Sabulodes)

Genus DESTUTIA Grossbeck, 1908

91a1356 D. flumenata (Pearsall, 1906) (Macaria) 6880
91a1357 D. novata Grossbeck, 1908 (Destutia) 6881
91a1358 D. oblentaria (Grote, 1883) (Tetracis) 6882
91a1359 D. excelsa (Strecker, 1878) (Eurymene) 6883
ssp. a. excelsa (Strecker, 1878) (Eurymene)
ssp. b. simpliciaria (Grote, 1883) (Tetracis)
ssp. c. olivata (Barnes & McDunnough, 1917) (Metanema)
cochizeata (Cassino & Swett, 1923) (Metanema)

Genus BESMA Capps, 1943

91a1360 B. endropiaria (Grote & Robinson, 1867) (Ellopia) 6884
fatuaria (Strecker, 1899) (Therina)
91a1361 B. quercivoraria (Guenée, [1858]) (Metanema) 6885
aeliaria (Walker, 1860) (Metanema)
incongruaria (Hulst, 1887) (Metanema)
textrinaria (Grote & Robinson, 1867) (Endropia)
trilinearia (Packard, 1876) (Metanema)
91a1362 B. rubritincta (Cassino & Swett, 1925) (Sabulodes) 6886
nigripuncta (Cassino & Swett, 1925) (Sabulodes)
91a1363 B. sesquilinearia (Grote, 1883) (Endropia) 6887
cavillaria (Hulst, 1886) (Tetracis)
novellata (Hulst, 1886) (Metanema)

Genus METRICA Matson, 2022
ID INFO: Matson (2022)

91a1364 M. kuschea (Guedet, 1939) (Semiothisa) 6418
NOTE: This species was described in *Semiothisa* Hübner, 1818 and subsequently placed in *Itame* Hübner [1825] 1816 by Ferguson (in Hodges et al. 1983), but it was misplaced in the Macariini and was not mentioned by Ferguson (2008). Matson (2022) described the genus *Metrica* for it. It is related to the New World group of genera previously placed in Ourapterygini (subsumed in Ennomini by Brehm et al. 2019) that includes *Besma*, *Lambdina* and *Neotherina* Dognin, 1914. This species is known only from the highest elevations of the Chiricahua Mountains, AZ.

Genus NEPHODIA Hübner, 1823
NOTE: This genus is placed herein before *Lambdina*, based on its placement in the analysis by Brehm et al. (2019).
BUTOA Walker, [1863] 1862
GYPSARA Walker, 1861
NIPTERIA Guenée, [1858]
SINGIDAVA Walker, [1863] 1862
UPENORA Burmeister, 1878

91a1365 N. crata (Druce, 1893) (Nipteria) STRAY [NEW]
NOTE: This species is known in NA from a single record; a specimen in the BOLD database from Brownsville, TX that is treated herein as a stray.

Genus LAMBDINA Capps, 1943

91a1366 L. fiscellaria (Guenée, [1858]) (Ellopia) 6888
ssp. a. fiscellaria (Guenée, [1858]) (Ellopia)
flagitiaria (Guenée, [1858]) (Ellopia)
johnsoni (Swett, 1913) (Therina)
peccataria (Swett, 1909) (Therina)
turbataria (Barnes & McDunnough, 1917) (Ellopia)
ssp. b. lugubrosa (Hulst, 1900) (Therina)
ssp. c. somniaria (Hulst, 1886) (Ellopia)
91a1367 L. pultaria (Guenée, [1858]) (Ellopia) 6889
invexata (Walker, 1863) (Ellopia)
scitata (Walker, 1863) (Ellopia)
91a1368 L. flavilinearia (Barnes & McDunnough, 1913) (Therina) 6890
91a1369 L. laeta (Hulst, 1900) (Therina) 6891
91a1370 L. pellucidaria (Grote & Robinson, 1867) (Ellopia) 6892
91a1371 L. canitiaria Rupert, 1944 (Lambdina) 6893
91a1372 L. fervidaria (Hübner, [1831]) (Therina) 6894
ssp. a. fervidaria (Hübner, [1831]) (Therina)
ssp. b. athasaria (Walker, 1860) (Ellopia)
aequaliaria (Walker, 1860) (Ellopia)
bibularia (Grote & Robinson, 1867) (Ellopia)
seminudaria; (Packard, 1867) (Ellopia) emend.
seminudata (Walker, 1863) (Ellopia)
siccaria (Walker, 1866) (Ellopia)
91a1373 L. vitraria (Grote, 1883) (Ellopia) 6895
jacularia (Barnes & McDunnough, 1917) (Ellopia)
91a1374 L. punctata (Hulst, 1898) (Therina) [NEW]
NOTE: The taxon *punctata* was listed by Ferguson (in Hodges et al. 1983) as a synonym of *L. vitraria*, but was raised to species status by Pitkin (2002).
91a1375 L. phantoma (Barnes & McDunnough, 1916) (Ellopia) 6896
NOTE: Pitkin (2002) suggested this is probably a synonym of *L. punctata*.

Genus EVITA Capps, 1943

91a1376 E. hyalinaria (Grossbeck, 1908) (Therina) 6897

Genus PHILTRAEA Hulst, 1896
ID INFO: Buckett (1971).

91a1377 P. elegantaria (Edwards, 1881) (Zerene) 6845
91a1378 P. utahensis Buckett, [1971] (Philtraea) 6846
91a1379 P. surcalifornіae Buckett, [1971] (Philtraea) 6847
91a1380 P. latifoliae Buckett, [1971] (Philtraea) 6848
91a1381 P. albimaxima Buckett, [1971] (Philtraea) 6849
91a1382 P. paucimacula Barnes & McDunnough, 1918 (Philtraea) 6850
91a1383 P. monillata Buckett, [1971] (Philtraea) 6851

Genus CINGILIA Walker, 1862
CATERVA Grote, 1876

91a1384 C. catenaria (Drury, 1773) (Phalaena) 6898
devinctaria (Guenée, [1858]) (Zerene)
humeralis Walker, 1862 (Cingilia)
immaculariа Swett, 1914 (Cingilia)
rubiferaria Swett, 1910 (Cingilia)
91a1385 C. orsona (Druce, 1883) (Zerene) [NEW]
NOTE: Added to the NA fauna based on specimens collected by Douglas Ferguson in AZ, at USNM; examined by HDM.

Genus NEPYTIA Hulst, 1896

91a1386 N. umbrosaria (Packard, 1873) (Cleora) 6899
ssp. a. umbrosaria (Packard, 1873) (Cleora)
ssp. b. nigrovenaria (Packard, 1876) (Cleora)
91a1387 N. regulata Barnes & McDunnough, 1916 (Nepytia) 6900
91a1388 N. disputata McDunnough, 1940 (Nepytia) 6901
91a1389 N. janetae Rindge, 1967 (Nepytia) 6902
91a1390 N. juabata [Cassino & Swett], 1922 (Nepytia) 6903
91a1391 N. lagunata Cassino & Swett, 1923 (Nepytia) 6904
91a1392 N. swetti Barnes & Benjamin, 1923 (Nepytia) 6905
91a1393 N. canosaria (Walker, [1863]) (Aspilates) 6906
fuscaria Barnes & Benjamin, 1923 (Nepytia)
piniaria (Packard, 1870) (Zerene)
pulchraria (Minot, 1869) (Cleora)
91a1394 N. phantasmaria (Strecker, 1899) (Cleora) 6907
91a1395 N. semiclusaria (Walker, [1863]) (Endropia) 6908
fumosaria (Strecker, 1899) (Cleora)
91a1396 N. pellucidaria (Packard, 1873) (Cleora) 6909
91a1397 N. freemani Munroe, 1963 (Nepytia) 6910

Genus EUCATERVA Grote, 1882

91a1398 E. variaria Grote, 1882 (Eucaterva) 6918
labesaria Grote, 1882 (Eucaterva)
lymax (Druce, 1898) (Bryoptera)
91a1399 E. bonniwelli Cassino & Swett, 1922 (Eucaterva) 6919

Genus MERIS Hulst, 1896
ID INFO: Rindge (1981).

91a1400 M. paradoxa Rindge, 1981 (Meris) 6877
91a1401 M. suffusaria McDunnough, 1940 (Meris) 6878
91a1402 M. alticola Hulst, 1896 (Meris) 6879.1
91a1403 M. cultrata Rindge, 1981 (Meris) 6879.2
91a1404 M. patula Rindge, 1981 (Meris) 6879

Genus ENNOMOS Treitschke, 1825
DEUTERONOMOS Prout, 1914
EUGONIA Hübner, [1823]
ODOPTERA Sodoffsky, 1837

91a1405 E. magnaria Guenée, [1858] (Ennomos) 6797
ssp. a. magnaria Guenée, [1858] (Ennomos)
lutaria Walker, 1866 (Ennomos)
ssp. b. ochreatus Hulst, 1898 (Ennomos)
91a1406 E. alniaria (Linnaeus, 1758) (Phalaena) I [NEW]
NOTE: Introduced European species, first found in NA in BC (Covell et al. 1986).
canaria (Hübner, 1790) (Phalaena)
tiliaria (Borkhausen, 1794) (Phalaena)
91a1407 E. subsignaria (Hübner, [1823]) (Eudalimia) 6798
niveosericeatus Harris, 1855 (Ennomos)

Genus EUGONOBAPTA Warren, 1894
ID INFO: McGuffin (1987).

91a1408 E. nivosaria (Guenée, [1858]) (Acidalia) 6965

Genus TETRACIS Guenée, 1857
ID INFO: Ferris & Schmidt (2010).
SYNAXIS Hulst, 1896

91a1409 T. crocallata Guenée, [1858] (Tetracis) 6963
aspilatata Guenée, [1858] (Tetracis)
91a1410 T. cachexiata Guenée, [1858] (Tetracis) 6964
lorata Grote, 1864 (Tetracis)
91a1411 T. cervinaria (Packard, 1871) (Metanema) 6956
aurantiacaria (Packard, 1873) (Metanema)
91a1412 T. australis Ferris, 2010 (Tetracis) [NEW]
91a1413 T. fuscata (Hulst, 1898) (Synaxis) 6953
91a1414 T. pallulata Hulst, 1887 (Tetracis) 6955
91a1415 T. mosesiani (Sala, [1971]) (Synaxis) 6961
91a1416 T. jubararia Hulst, 1886 (Tetracis) 6954
ssp. a. jubararia Hulst, 1886 (Tetracis)
ssp. b. sericeata (Barnes & McDunnough, 1917) (Synaxis)
91a1417 T. montanaria Ferris, 2010 (Tetracis) [NEW]
91a1418 T. barnesii (Hulst, 1896) (Gonodontis) 6959
91a1419 T. formosa (Hulst, 1896) (Gonodontis) 6958
91a1420 T. hirsutaria (Barnes & McDunnough, 1913) (Metanema) 6960
91a1421 T. pallidata Ferris, 2010 (Tetracis) [NEW]

Genus EUTRAPELA Hübner, 1809
ABBOTTANA Hulst, 1896
SYNDALIMIA Hübner, 1821

91a1422 E. clematataria (Smith, 1797) (Phalaena) 6966
transducens (Walker, 1860) (Choerodes)
transferens (Walker, 1860) (Choerodes)
transfingens (Walker, 1860) (Choerodes)

Genus OXYDIA Guenée, 1857
ID INFO: Rindge (1957).
ANDANIA Walker, 1860
LITBADA Walker, 1866
SIGMATHYRIS Warren, 1895

91a1423 O. vesulia (Cramer, [1779]) (Phalaena) extralim. 6967
ssp. a. transponens (Walker, 1860) (Choerodes)
antilleana Prout, 1932 (Oxydia)
91a1424 O. cubana (Warren, 1906) (Microgonia) 6968
91a1425 O. gueneei (Warren, 1904) (Microgonia) 6969
91a1426 O. nimbata Guenée, [1858] (Oxydia) 6970
noctuitaria Walker, 1860 (Oxydia)
vitiligata Felder & Rogenhofer, 1875 (Oxydia)
91a1427 O. mundata Guenée, [1858] (Oxydia) 6971
zonulata Hulst, 1886 (Oxydia)
91a1428 O. masthala Druce, 1892 (Oxydia) 6972

Genus PATALENE Herrich-Schäffer, 1854
DREPANODES Guenée, [1858]
HALESA Walker, 1860

91a1429 P. olyzonaria (Walker, 1860) (Drepanodes) 6974
ssp. a. olyzonaria (Walker, 1860) (Drepanodes)
sesquilinea (Grote, 1870) (Drepanodes)
syzgiaria (Hulst, 1886) (Drepanodes)
ssp. b. puber (Grote & Robinson, 1867) (Drepanodes)
aquosus (Grote & Robinson, 1867) (Drepanodes)
hortularia (Hulst, 1886) (Drepanodes)
juniperaria (Packard, 1871) (Drepanodes)
perizomaria (Hulst, 1886) (Drepanodes)
varus (Grote & Robinson, 1867) (Drepanodes)
91a1430 P. hamulata (Guenée, [1858]) (Drepanodes) [NEW]
NOTE: Added to the NA fauna (FL) by Heppner (2007).
ssp. a. hamulata (Guenée, [1858]) (Drepanodes)
falcularia Herrich-Schäffer, [1854] (Patalene)
harpagulata (Guenée, [1858]) (Drepanodes)
insudata (Guenée, [1858]) (Drepanodes)
meticulata (Guenée, [1858]) (Drepanodes)
siculata (Guenée, [1858]) (Drepanodes)
91a1431 P. epionata (Guenée, [1858]) (Drepanodes) 6975
amytisaria (Walker, 1860) (Hyperythra)
bicesaria (Walker, 1860) (Drepanodes)
ochrea (Butler, 1878) (Hyposidra)
oemearia (Walker, 1860) (Drepanodes)
pappiaria (Walker, 1860) (Drepanodes)
pionaria (Walker, 1860) (Drepanodes)
spadicearia (Möschler, 1888) (Hyposidra)
tellesaria (Walker, 1860) (Drepanodes)
91a1432 P. nicoaria (Walker, 1860) (Drepanodes) 6976

Genus PROCHOERODES Grote, 1883
AESCHROPTERYX Butler, 1883
CHOERODES Guenée, [1858]

91a1433 P. nonangulata (Strecker, 1899) (Sabulodes) 6980
91a1434 P. lineola (Goeze, 1781) (Phalaena) [NEW]
ssp. a. lineola (Goeze, 1781) (Phalaena)
contigens (Walker, 1860) (Choerodes)
goniata (Guenée, [1858]) (Choerodes)
transfindens (Walker, 1860) (Choerodes)
transposita (Walker, 1860) (Choerodes)
transversata (Drury, 1770) (Phalaena) preocc. *[6982]*
ssp. b. incurvata (Guenée, [1858]) (Choerodes)
transmutans (Walker, 1860) (Choerodes)
transvertens (Walker, 1860) (Choerodes)
91a1435 P. olivata (Warren, 1904) (Aeschropteryx) 6983
91a1436 P. truxaliata (Guenée, [1858]) (Tetracis) 6977
91a1437 P. amplicineraria (Pearsall, 1906) (Sabulodes) 6978
91a1438 P. accentuata (Barnes & McDunnough, 1918) (Sabulodes) 6979
91a1439 P. forficaria (Guenée, [1858]) (Metanema) 6981
ssp. a. forficaria (Guenée, [1858]) (Metanema)
nubilata (Packard, 1871) (Choerodes)
ssp. b. catenulata Grote, 1883 (Prochoerodes)
anfracta (Hulst, 1886) (Eutrapela)
ssp. c. combinata McDunnough, 1940 (Prochoerodes)

Genus NEPHELOLEUCA Butler, 1883

91a1440 N. politia (Cramer, [1777]) (Phalaena) 6985
91a1441 N. floridata (Grote, 1883) (Urapteryx) 6986

Genus ANTEPIONE Packard, 1876
ID INFO: Ferris (2010c).
MIMOGONOIDES Warren, 1895

91a1442 A. thisoaria (Guenée, [1858]) (Heterolocha) 6987
arcasaria (Walker, 1860) (Hyperythra)
azonax (Druce, 1892) (Tetracis)
constricta (Warren, 1895) (Mimogonodes)
depontanata (Grote, 1864) (Epione)
furciferata (Packard, 1876) (Eutrapela)
rhomboidaria (Oberthür, 1912) (Gonopteryx)
rivulata (Warren, 1897) (Tetracis)
sulphurata (Packard, 1873) (Heterolocha)
91a1443 A. imitata Edwards, 1884 (Antepione) 6990
comstocki Sperry, 1939 (Antepione) *[6988]*
constans (Hulst, 1898) (Eugonobapta) *[6991]*
costinotata (Taylor, 1906) (Sabulodes)
indiscretata (Edwards, 1884) (Tetracis) *[6989]*
vanusaria (Strecker, 1899) (Metanema)

Genus SERICOPTERA Herrich-Schäffer, 1856
RIPULA Guenée, 1857

91a1444 S. virginaria (Hulst, 1886) (Ripula) 6994
insularis Warren, 1909 (Sericoptera)
vestalis (Hulst, 1898) (Ripula)

Genus PHYLLODONTA Warren, 1894
ID INFO: Ferris & Walsh (2006).
NOTE: Tribal placement of the genus is unresolved (Pitkin 2002), but it is here tentatively retained in Ennomini. DNA barcode variation of *P. peccataria* associates it with the Nacophorini, while *P. sarukhani* has affinities to the *Nepytia* group of genera. *Phyllodonta succedens* (Walker, 1860) was placed near *Sabulodes* in the analysis by Brehm et al. (2019).
LYCIMNA Barnes & McDunnough, 1916

91a1445 P. peccataria (Barnes & McDunnough, 1916) (Lycimna) 6973
91a1446 P. sarukhani Beutelspacher, 1984 (Phyllodonta) [NEW]
NOTE: Added to the NA fauna (AZ) by Ferris & Walsh (2006).

Genus SABULODES Guenée, 1857
ID INFO: Evans (1960), Rindge (1978a).
ENYPIA Hulst, 1896
NOTE: Synonymized by Brehm et al. (2019).
PHENGOMMATAEA Hulst, 1896

91a1447 S. aegrotata (Guenée, [1858]) (Tetracis) 6995
NOTE: Prior to Rindge (1978a), this species was treated as a synonym of *S. caberata*. "True" *S. caberata* is a Neotropical species that does not occur in NA.
arsesaria (Walker, 1860) (Ennomos)
caberata of authors; not Guenée, [1858] (Sabulodes) misappl.
cottlei Barnes & Benjamin, 1926 (Sabulodes)
91a1448 S. dissimilis (Hulst, 1898) (Phengommataea) 6996
91a1449 S. sericeata Barnes & McDunnough, 1917 (Sabulodes) 6997
91a1450 S. huachuca Rindge, 1978 (Sabulodes) 6998
91a1451 S. mabelata (Sperry, 1948) (Phengommataea) 6999
91a1452 S. niveostriata (Cockerell, 1894) (Caripeta) 7000
gertruda (Hulst, 1896) (Phengommataea)
91a1453 S. olifata (Guedet, 1939) (Phengommataea) 7001
91a1454 S. duoangulata (Cassino & Swett, 1923) (Phengommataea) 7002
91a1455 S. spoliata (Grossbeck, 1908) (Phengommataea) 7003
ssp. a. spoliata (Grossbeck, 1908) (Phengommataea)
ssp. b. berkleyata (Wright, 1917) (Phengommataea)
ssp. c. lagunata (Cassino & Swett, 1923) (Phengommataea)
91a1456 S. edwardsata (Hulst, 1886) (Tetracis) 7004
91a1457 S. venata (Grote, 1883) (Cleora) 7005
eddyi (Barnes & Benjamin, 1929) (Enypia)
elaborata (Cassino & Swett, 1923) (Enypia)
perangulata (Hulst, 1896) (Enypia)
91a1458 S. griseata (Grossbeck, 1908) (Enypia) 7006
moillieti (Blackmore, 1926) (Enypia)
91a1459 S. packardata (Taylor, 1906) (Enypia) 7007
91a1460 S. coolidgi (Cassino & Swett, 1923) (Enypia) 7008

Genus NEMATOCAMPA Guenée, 1857
ID INFO: Ferguson (2008).
NOTE: Formerly placed in the tribe Cassymini (Ferguson 2008), but here placed in Ennomini following the results of Brehm et al. (2019), who showed that *Nematocampa* is related to a diverse radiation of Neotropical Ennomini genera that also includes *Patalene*.

91a1461 N. resistaria (Herrich-Schäffer, [1856]) (Microgonia) [NEW]
NOTE: Replacement name for *Phalaena limbata* Haworth, 1809, a junior homonym of *Phalaena limbata* Linnaeus, 1767, by Ferguson (1993).
brunneolineata (Hulst, [1901] 1900) (Eugonobapta)
chagnoni (Swett, 1913) (Ania)
expunctaria Grote, 1872 (Nematocampa) [7010]
filamentaria Guenée, 1857 (Nematocampa)
limbata (Haworth, 1809) (Phalaena) preocc. [7009]
orfordensis Cassino & Swett, 1922 (Nematocampa)
91a1462 N. brehmeata (Grossbeck, 1907) (Ania) 7011
91a1463 N. baggettaria Ferguson, 1993 (Nematocampa) [NEW]

Superfamily NOCTUOIDEA Latreille, 1809

The NA Noctuoidea have undergone extensive systematic and taxonomic changes since the last comprehensive Lepidoptera checklist (sections by Franclemont, by Ferguson, and by Franclemont & Todd, in: Hodges et al. 1983). The checklists of “Arctiidae” by Ferguson & Opler (2006) and Schmidt & Opler (2008) contained many taxonomic changes. As well, the checklist of Nearctic Noctuoidea by Lafontaine & Schmidt (2010) and subsequent updates and corrections (Lafontaine & Schmidt 2011, 2013a, 2015; Schmidt et. al. 2018) compiled published records and taxonomic changes since Hodges et al. (1983), and introduced many taxonomic changes and Nearctic records as well. The particulars of changes made or otherwise detailed in the aforementioned papers are not all reiterated in the current list, as that information can be readily found there. However, we do list other additions and changes not detailed in those works.

89. Family NOTODONTIDAE Stephens, 1829 (prominent moths)

by B. Christian Schmidt & Ryan A. St Laurent

Notodontids are medium-sized to large, stout-bodied moths, with wingspans from 25 to 60 mm in NA species. The NA Notodontidae have been extensively reviewed and revised recently by Miller et al. (2018, 2021), and the reader is referred to these works for detailed information on the family. No single character state defines the family (Miller 1991), but monophyly of the group is well established. Adults have serrate margins of the tibial spur apices (shared with some Erebidae), and the vast majority of species have a ventrally-facing membrane of the abdominal tympanum (Miller et al. 2018). Fairly consistent larval characters include the presence of microsetae MD1 and MD2 on segment Ab1, and extra setae or a setal group on segment Ab10. The larvae exhibit a spectacularly diverse range of shape, color pattern, and behavior.

In NA, notodontids are most diverse in the eastern deciduous forests, as most species are specialists on deciduous trees or shrubs. Numerous taxa of the Neotropical notodontid fauna occur in the American Southwest, particularly southern AZ. A world catalog of the Notodontidae was published by Schintlmeister (2013). The family was covered in the NA Noctuoidea checklist and updates published by Lafontaine & Schmidt (2010, 2011, 2013a, 2015) and Schmidt et al. (2018). Over 4,400 species are known, with a nearly global distribution. A total of 179 species are known from NA.

Subfamily PYGAERINAE Duponchel, [1845]

ID INFO: Miller et al. (2018).

Genus CLOSTERA Samouelle, 1819

ICHTHYURA Hübner, [1819]
MELALOPHA Hübner, 1822
MELALOPHIA Hübner, [1806]
NEOCLOSTERA Kiriakoff, 1963
THOLODA Gistel, 1848

93 0003 C. albosigma Fitch, 1856 (Clostera) 7895
curtuloides Erschoff, 1870 (Clostera)
specifica (Dyar, 1892) (Ichthyura)

93 0004 C. inclusa (Hübner, [1831]) (Ichthyura) 7896
americana Harris, 1841 (Clostera)
inversa (Packard, 1864) (Ichthyura)
palla (French, 1882) (Ichthyura)

93 0004.1 C. jocosa (Edwards, 1886) (Ichthyura) [NEW]

93 0005 C. inornata (Neumoegen, 1882) (Ichthyura) 7897

93 0006 C. strigosa (Grote, 1882) (Ichthyura) 7898

93 0006.1 C. luculenta (Edwards, 1886) (Ichthyura) [NEW]

93 0007 C. paraphora (Dyar, 1921) (Melalopha) 7899

93 0008 C. brucei (Edwards, 1885) (Ichthyura) 7900

93 0008.1 C. multnoma (Dyar, 1892) (Ichthyura) [NEW]
alethe (Neumoegen & Dyar, 1893) (Melalopha)

93 0009 C. apicalis (Walker, 1855) (Ichthyura) 7901
astoriae (Edwards, 1886) (Ichthyura)
indentata (Packard, 1864) (Ichthyura)
vau Fitch, 1859 (Clostera)

93 0009.1 C. ornata (Grote & Robinson, 1868) (Ichthyura) [NEW]
bifira (Edwards, 1886) (Ichthyura)
incarcerata Boisduval, 1869 (Clostera)

Subfamily NOTODONTINAE Stephens, 1829

ID INFO: Miller et al. (2018).

Genus PARAESCHRA Miller & Franclemont, 2018

93 0011 P. tortuosa (Tepper, 1881) (Drynobia) 7918

93 0011.1 P. georgica (Herrich-Schäffer, 1855) (Notodonta) 7917

Genus PHEOSIA Hübner, [1819]

LEIOCAMPA Stephens, [1828]

93 0012 P. rimosa Packard, 1864 (Pheosia) 7922
dimidiata of authors; (not Herrich-Schäffer, 1856) (Drymonia) misappl.

93 0012.1 P. californica (Stretch, 1872) (Notodonta) [NEW]
descherei (Neumoegen, 1892) (Notodonta)
portlandia Edwards, 1886 (Pheosia) *[7923]*

Genus PHEOSIDEA Miller & Franclemont, 2018

93 0013 P. elegans (Strecker, 1885) (Lophopteryx) 7924
grisea (Strecker, 1885) (Lophopteryx) *[7925]*
notaria (Edwards, 1885) (Notodonta)
notataria; (Becker, 2014) (Odontosia) missp.
nototaria; (Franclemont, 1983) (Odontosia) missp.

Genus NOTODONTA Ochsenheimer, 1810

ELIGMODONTA Kiriakoff, 1967
MICRODONTELLA Strand, 1934
MIMODONTA Matsumura, 1920
TRITOPHIA Kiriakoff, 1967

93 0015 N. scitipennis Walker, 1862 (Notodonta) 7926
stragula Grote, 1864 (Notodonta)

93 0015.1 N. manitou Neumoegen & Dyar, 1893 (Notodonta) [NEW]

93 0015.2 N. ochreata (Barnes & McDunnough, 1912) (Hyperaeschra) [NEW]

930016 N. pacifica Behr, 1892 (Notodonta) 7927
930017 N. torva (Hübner, 1803) (Bombyx) H [NEW]
NOTE: This species has been historically treated under the name *simplaria*, either as a species or as a subspecies of *N. torva*. Schintlmeister (2013) synonymized *simplaria*, and that was corroborated by Miller et al. (2018) based on genitalic and genetic evidence. Miller et al. (2018) also noted that the status of the Chinese taxon *musculus* is in doubt; it may be a subspecies.
musculus (Kiriakoff, 1963) (Peridea)
nigra Wu & Fang, 2003 (Notodonta)
simplaria Graef, 1881 (Notodonta) [7928]

Genus NERICE Walker, 1885
CHOKAIA Kiriakoff, 1967
NERICOIDES Matsumura, 1924
PARANERICE Kiriakoff, 1963
PSEUDONERICE Bryk, 1949

930018 N. bidentata Walker, 1855 (Nerice) 7929

Genus GLUPHISIA Boisduval, 1828
ID INFO: Miller et al. (2018, 2021).
CERURIDIA Dyar, 1893
EUMELIA Neumoegen, 1893
MELIA Neumoegen, 1892
PARAGLUPHISIA Djakonov, 1926

Gluphisia "Gluphisia group" Forbes, 1948

930019 G. septentrionis Walker, 1855 (Gluphisia) 7931
clandestina (Walker, 1861) (Dasychira)
opaca Barnes & Benjamin, 1927 (Gluphisia)
quinquelinea Dyar, 1892 (Gluphisia)
ridenda Edwards, 1886 (Gluphisia)
rupta Edwards, 1886 (Gluphisia)
septentrionalis; [various, no date] (Gluphisia) missp.
trilineata Packard, 1864 (Gluphisia)
930020 G. wrightii Edwards, 1886 (Gluphisia) 7932
albofascia Edwards, 1886 (Gluphisia)
formosa Edwards, 1886 (Gluphisia)

Gluphisia "Eumelia group" Forbes, 1948

930021 G. avimacula Hudson, 1891 (Gluphisia) 7933
slossoniae Dyar, 1893 (Gluphisia)
slossonii Dyar, 1893 (Gluphisia)
930022 G. lintneri (Grote, 1877) (Dasychira) 7934
pretians Franclemont, 1941 (Gluphisia)
930023 G. severa Edwards, 1886 (Gluphisia) 7935
danbyi (Neumoegen, 1892) (Melia)
normalis Dyar, 1904 (Gluphisia)
930023.1 G. richersi Opler & Ferris, 2021 (Gluphisia) [NEW]
NOTE: Described in Addendum 1 of Miller et al. (2021). In the illustrations, the authors are erroneously listed as "Ferris & Opler".
930023.2 G. dickeli Miller & Opler, 2018 (Gluphisia) [NEW]

Subfamily CERURINAE Butler, 1881
ID INFO: Miller et al. (2018).

Genus FURCULA Lamarck, 1816
HARPYIAS Hübner, [1819]
NOTE: The species groups of NA *Furcula* as defined by Miller et al. (2018) are omitted here, as they do not form natural groups (RAS, in prep.)

930025 F. cinerea (Walker, 1865) (Cerura) 7937
930025.1 F. cinereoides (Dyar, 1890) (Cerura) [NEW]
paradoxa (Behr, 1885) (Cerura)
paradoxa (Dyar, 1892) (Cerura)
placida (Dyar, 1892) (Cerura)
930025.2 F. vargoi Wagner & Miller, 2018 (Furcula) [NEW]
930025.3 F. wileyi (Dyar, 1922) (Cerura) [NEW]
930025.4 F. nalli Miller & Wagner, 2018 (Furcula) [NEW]
930026 F. nivea (Neumoegen, 1891) (Heterocampa) 7938
niveata (Barnes & Benjamin, 1924) (Cerura)
930026.1 F. meridionalis (Dyar, 1892) (Cerura) [NEW]
930028 F. scolopendrina (Boisduval, 1869) (Dicranura) 7940
albicoma (Strecker, [1885]) (Harpyia)
aquilonaris (Lintner, 1878) (Cerura)
pluvialis (Dyar, 1922) (Cerura)
930028.1 F. borealis (Guérin-Méneville, 1844) (Dicranura) 7936
930029 F. modesta (Hudson, 1891) (Cerura) 7941
930029.1 F. occidentalis (Lintner, 1878) (Cerura) 7939
930029.2 F. gigans (McDunnough, 1922) (Cerura) [NEW]
NOTE: NA populations were listed under the name *F. furcula* in Miller et al. (2018), but St Laurent et al. (2023), using phylogenomics, determined that the NA populations recently treated as *F. furcula* were more appropriately treated as a separate species, using the oldest available name *F. gigans*.
deorum (Dyar, 1922) (Cerura)
furcula of authors; (not Clerck, 1759) (Phalaena) misappl.

Genus AMERICERURA St Laurent & Goldstein, 2023
NOTE: The American populations of Cerurinae (excluding *Furcula*) have had a complicated taxonomic past regarding generic combination, with the three species listed below originally described in *Cerura*, later transferred erroneously to *Tecmessa* by Schintlmeister (2013), and then most recently placed in *Americerura* based on phylogenomic results (St Laurent et al. 2023).

930030 A. scitiscripta (Walker, 1865) (Cerura) 7942
canadensis (McDunnough, 1932) (Cerura)
multiscripta (Riley, 1875) (Cerura)
platea (Schaus, 1890) (Dicranura)
930031 A. candida (Lintner, 1878) (Cerura) 7943
930032 A. rarata (Walker, 1865) (Cerura) 7944

Subfamily PHALERINAE Butler, 1886
ID INFO: Miller et al. (2018).

Genus DATANA Walker, 1855
EUMETOPONA Fitch, 1856

930033 D. ministra (Drury, 1773) (Phalaena) 7902
ruficollis Walker, 1862 (Datana)
930033.1 D. californica Dyar, 1890 (Datana) [NEW]
930034 D. angusii Grote & Robinson, 1866 (Datana) 7903
930035 D. drexelii Edwards, 1884 (Datana) 7904
930036 D. major Grote & Robinson, 1866 (Datana) 7905
930037 D. contracta Walker, 1855 (Datana) 7906
930038 D. integerrima Grote & Robinson, 1866 (Datana) 7907
930038.1 D. cochise Dyar, 1905 (Datana) [NEW]
930039 D. perspicua Grote & Robinson, 1865 (Datana) 7908
discalis Dyar, 1923 (Datana)
eileena Dyar, 1923 (Datana)
infusa Dyar, 1923 (Datana)
mesillae Cockerell, 1897 (Datana)
opposita Barnes & Benjamin, 1927 (Datana)
930040 D. robusta Strecker, [1878] (Datana) 7909
930041 D. modesta Beutenmüller, 1890 (Datana) 7910
930042 D. ranaeceps (Guérin-Méneville, 1844) (Sericaria) 7911
floridana Graef, 1880 (Datana)
palmii Beutenmüller, 1890 (Datana)
930043 D. diffidens Dyar, 1917 (Datana) 7912
930044 D. neomexicana Doll, 1911 (Datana) 7913
930045.1 D. perfusa Dyar, 1923 (Datana) [NEW]
chiriquensis of authors; not Dyar, 1895 (Datana) misid. [7914]
rotundata Draudt, 1934 (Datana)

Genus NADATA Walker, 1855
ALASTOR Boisduval, 1869

930046 N. gibbosa (Smith, 1797) (Phalaena) 7915
doubledayi Packard, 1864 (Nadata)
rubripennis Neumoegen & Dyar, 1893 (Nadata)
930046.1 N. anastomosa Miller & Franclemont, 2018 (Nadata) [NEW]
930047 N. oregonensis Butler, 1881 (Nadata) 7916
behrensii Edwards, 1885 (Nadata)

Genus PERIDEA Stephens, [1828]
CHATFIELDIA Grote, 1895
FUSADONTA Matsumura, 1920
LOPHODONTA Packard, 1864
MESODONTA Matsumura, 1920

Peridea angulosa group Miller, Wagner, Opler & Lafontaine, 2018

930048 P. basitriens (Walker, 1855) (Notodonta) 7919
930049 P. angulosa (Smith, 1797) (Phalaena) 7920
930049.1 P. knudsoni Miller, 2018 (Peridea) [NEW]

Peridea ferruginea group Miller, Wagner, Opler & Lafontaine, 2018

93 0050 P. ferruginea (Packard, 1864) (Lophodonta) 7921
reducta McDunnough, 1932 (Peridea)
93 0050.1 P. bordeloni Miller, 2018 (Peridea) [NEW]

Subfamily PERIERGOSINAE Kobayashi, 2016

ID INFO: Miller et al. (2018).

Genus ELLIDA Grote, 1876
CHADISRINA Gaede, 1930
URODONTA Staudinger, 1887
URODONTOIDES Matsumura, 1929
URODONTOPSIS Matsumura, 1929

93 0051 E. caniplaga (Walker, 1856) (Cymatophora) 7930
gelida Grote, 1876 (Ellida)
transversata (Walker, 1865) (Edema)

Genus SCEVESIA Dyar, 1916
SKEWESIA; Franclemont, 1983 missp.

93 0051.5 S. angustiora (Barnes & McDunnough, 1910) (Eunotela) 7963
93 0051.6 S. broidricci Dyar, 1916 (Scevesia) [NEW]

Subfamily DUDUSINAE Matsumura, 1929

ID INFO: Miller et al. (2018).

Genus CARGIDA Schaus, 1901

93 0052 C. pyrrha (Druce, 1898) (Heterocampa) 7964
intensa Rothschild, 1917 (Cargida)

Genus CRINODES Herrich-Schäffer, 1855
ASTYLIS Boisduval, 1872

93 0053 C. biedermani Skinner, 1905 (Crinodes) 8028
93 0053.1 C. mcfarlandi Miller, 2018 (Crinodes) [NEW]
93 0053.2 C. alector (Druce, 1887) (Heterocampa) [NEW]
crenulata Schaus, 1921 (Crinodes)

Subfamily HEMICERATINAE Guenée, 1852

ID INFO: Miller et al. (2018).

Genus HEMICERAS Guenée, 1852
BRECONTIA Dyar, 1908
COMIDAVA Walker, [1863]
ECREGMA Walker, 1858
EPICORIA Walker, 1865
EULOPHOPTERYX Möschler, 1877
GADIANA Walker, 1865
SALAMBORIA Walker, 1865

93 0054E H. cadmia Guenée, 1852 (Hemiceras) EXCL. 8030
NOTE: This Neotropical species was listed for NA by Franclemont (in Hodges et al. 1983), based on a mislabeled specimen (Miller et al. 2018).
93 0054.1 H. paltingi Pogue & Miller, 2018 (Hemiceras) [NEW]

Subfamily HETEROCAMPINAE Neumoegen & Dyar, 1894

ID INFO: Miller et al. (2021; genera and species).

Tribe HETEROCAMPINI Neumoegen & Dyar, 1894

Genus AFILIA Schaus, 1901

93 0055 A. oslari Dyar, 1904 (Afilia) 7962
moqui (Barnes, 1904) (Eunotela)
93 0055.1 A. luma Miller, 2021 (Afilia) [NEW]
93 0055.2 A. walshi Miller, 2021 (Afilia) [NEW]

Genus CARIBBEANA Miller, 2021

93 0057 C. bichorda (Hampson, 1901) (Heterocampa) 7965

Genus LITODONTA Harvey, 1876

93 0060 L. hydromeli Harvey, 1876 (Litodonta) 7968
fusca Harvey, 1876 (Litodonta)

93 0060.1 L. troubridgei Miller & Lafontaine, 2021 (Litodonta) [NEW]
93 0061 L. contrasta Barnes & McDunnough, 1910 (Litodonta) 7969

Genus ASTIPTODONTA Miller & Franclemont, 2021

93 0062 A. wymola (Barnes, 1905) (Heterocampa) 7970
93 0063 A. aonides (Strecker, 1899) (Heterocampa) 7971

Genus BALTODONTA Miller & Franclemont, 2021

93 0063.5 B. broui Miller & Franclemont, 2021 (Baltodonta) [NEW]

Genus MISOGADA Walker, 1865
STEMATOCAMPA Packard, 1895

93 0066 M. unicolor (Packard, 1864) (Lochmaeus) 7974
marina (Packard, 1864) (Lochmaeus)
sobria Walker, 1865 (Misogada)

Genus MACRUROCAMPA Dyar, 1893

Macrurocampa marthesia group Miller, Wagner, Opler & Lafontaine, 2021

93 0067 M. marthesia (Cramer, [1780]) (Phalaena) 7975
elongata (Grote & Robinson, 1867) (Heterocampa)
manitobensis (McDunnough, 1932) (Fentonia)
nigra (Chermock, 1929) (Fentonia)
tesella; Franclemont, 1983 (Macrurocampa) missp.
tessella (Packard, 1864) (Lochmaeus)
turbida (Walker, 1865) (Cerura)
93 0068 M. dorothea Dyar, 1896 (Macrurocampa) 7976
93 0068.1 M. miranda Dyar, 1905 (Macrurocampa) [NEW]
93 0068.2 M. frisoni (Barnes & Benjamin, 1927) (Fentonia) [NEW]

Macrurocampa gigantea group Miller, Wagner, Opler & Lafontaine, 2021

93 0068.3 M. gigantea (Barnes & Benjamin, 1924) (Litodonta) 7972
93 0068.4 M. alpina (Benjamin, [1932] 1931) (Litodonta) 7973

Macrurocampa ruficornis group Miller, Wagner, Opler & Lafontaine, 2021

93 0068.5 M. ruficornis (Dyar, 1905) (Heterocampa) 7996

Macrurocampa zayasi group Miller, Wagner, Opler & Lafontaine, 2021

93 0068.6 M. zayasi (Torre & Alayo, 1959) (Disphragis) 7997

Genus HETEROCAMPA Doubleday, 1841
BALIA Doubleday, 1869
NOTE: This synonym was accidentally omitted by Miller et al. (2021).
TRICHOTIS Felder, 1874

Heterocampa astarte group Miller, Wagner, Opler & Lafontaine, 2021

93 0069 H. astarte Doubleday, 1841 (Heterocampa) 7977
chapmanii Grote, 1881 (Heterocampa)
menas (Doubleday, 1869) (Stauropus)
perolivata Packard, 1895 (Heterocampa)
picta (Felder, 1874) (Trichotis)
93 0070 H. astartoides Benjamin, [1932] (Heterocampa) 7978
93 0072 H. rufinans (Dyar, 1921) (Disphragis) 7980
simulans Barnes & Benjamin, 1924 (Heterocampa)
[7979]
93 0074 H. varia Walker, 1855 (Heterocampa) 7982
baryspus (Dyar, 1921) (Disphragis)
georgiana (Dyar, 1921) (Disphragis)
93 0075 H. obliqua Packard, 1864 (Heterocampa) 7983
brunnea Grote & Robinson, 1867 (Heterocampa)
trouvelotii Packard, 1864 (Heterocampa)
93 0075.1 H. secessionis Benjamin, [1932] (Heterocampa) 7981

Heterocampa umbrata group Miller, Wagner, Opler & Lafontaine, 2021

93 0082 H. umbrata Walker, 1855 (Heterocampa) 7990
athereo (Doubleday, 1869) (Stauropus)

930082.1 H. pulverea Grote & Robinson, 1867 (Heterocampa) [NEW]
nigra Chermock, 1927 (Heterocampa)
930083 H. averna Barnes & McDunnough, 1910 (Heterocampa) 7991
pasathelys (Dyar, 1921) (Disphragis)
930084 H. amanda Barnes & Lindsey, 1921 (Heterocampa) 7992

Genus CECRITA Walker, 1855
CERITA; Franclemont, 1983 missp.

930086 C. guttivitta Walker, 1855 (Cecrita) 7994
albiplaga Walker, 1856 (Cecrita)
cinereus (Packard, 1864) (Lochmaeus)
doubledayi (Scudder, 1869) (Heterocampa)
harrisii (Packard, 1864) (Coelodasys)
hugoi (Chermock & Chermock, 1940) (Heterocampa)
indeterminata (Walker, 1865) (Drymonia)
mucorea (Herrich-Schäffer, 1856) (Drymonia)
930087 C. biundata (Walker, 1855) (Heterocampa) 7995
mollis (Walker, 1865) (Heterocampa)
olivata (Packard, 1864) (Lochmaeus)
semiplaga (Walker, 1861) (Heterocampa)
viridescens (Walker, 1865) (Stauropus)
930087.11 C. incongrua (Barnes & Benjamin, 1924) (Heterocampa) 7989
930087.12 C. franclemonti Miller, 2021 (Cecrita) [NEW]
930087.13 C. belfragei (Grote, 1879) (Heterocampa) 7988
930087.14 C. cubana (Grote, [1866] 1865) (Heterocampa) 7984
androdora (Dyar, 1910) (Heterocampa)
daona (Druce, 1894) (Heterocampa)
draudtiana (Bryk, 1953) (Disphragis)
suavis (Draudt, 1932) (Disphragis)
930087.15 C. lunata (Edwards, 1884) (Heterocampa) 7993
930087.16 C. plumosa (Edwards, 1886) (Lophodonta) [NEW]

Genus RIFARGIA Walker, 1862

930087.5 R. subrotata (Harvey, 1874) (Heterocampa) 7985
celtiphaga (Harvey, 1874) (Heterocampa)
superba (Edwards, [1885] 1884) (Heterocampa)
930087.55 R. occiclina Miller, 2021 (Rifargia) [NEW]
930087.6 R. benitensis (Blanchard, 1971) (Heterocampa) 7987
930087.65 R. ditta (Barnes & McDunnough, 1910) (Heterocampa) 7986
agapa (Schaus, 1928) (Disphragis)

Genus GINALDIA Schaus, 1905
RIFARGIRA Thiaucourt, 2002
NOTE: Schintlmeister (2013) listed several species under "*Rifargira* Thiaucourt, 2002", separate from *Rifargia*. The excluded species *distinguenda* and *lineata* were included therein. Becker (2014) synonymized *Rifargira* with *Ginaldia* but Miller et al. (2021) overlooked this and maintained the following two species in *Rifargira*. We follow Becker's synonymy and maintain the following two species in *Ginaldia*.

930087.7E G. distinguenda (Walker, 1856) (Acronycta) EXCL. 7966
NOTE: A specimen from FL in the USNM was identified as this species by Dyar; it was considered a stray by Franclemont (in Hodges et al. 1983). Miller et al. (2021) concluded that it was probably mislabeled, and excluded it from the NA fauna. It is otherwise known from Cuba, Puerto Rico, and Mexico south to Brazil.
930087.75E G. lineata (Druce, 1887) (Symmerista) EXCL. 7967
NOTE: A specimen from FL in the USNM was identified as this species by Dyar; it was considered a stray by Franclemont (in Hodges et al. 1983). Miller et al. (2021) concluded that it was probably mislabeled, and excluded it from the NA fauna. It is otherwise known from Panama and South America.

Genus LOCHMAEUS Doubleday, 1841
SEIRODONTA Grote & Robinson, 1868
TADANA Walker, 1855

930090 L. manteo Doubleday, 1841 (Lochmaeus) 7998
cinerascens (Walker, 1855) (Tadana)
subalbicans (Grote, [1864]) (Heterocampa)
930091 L. bilineata (Packard, 1864) (Cecrita) 7999
associata (Walker, 1865) (Edema)
boweri (Chermock & Chermock, 1940) (Heterocampa)
exsanguis (Dyar, 1906) (Heterocampa)
turbida (Walker, 1865) (Heterocampa)
ulmi (Harris, 1869) (Notodonta)

Genus THEROA Schaus, 1901

930093 T. zethus (Druce, 1898) (Dasylophia) 8000

Genus PRAESCHAUSIA Benjamin, [1932]

930094 P. zapata (Schaus, 1920) (Kalkoma) 8001

Genus URSIA Barnes & McDunnough, 1911

930095 U. noctuiformis Barnes & McDunnough, 1911 (Ursia) 8002
930096 U. furtiva Blanchard, 1971 (Ursia) 8003

Genus DISPHRAGIS Hampson, 1905 (excl.)

930096.5E D. captiosa Draudt, 1932 (Disphragis) EXCL. [NEW]
NOTE: Reported by Leuschner (1992) based on a misidentification of *Rifargia ditta* (Miller et al. 2021).

Genus SCHIZURA Doubleday, 1841
DICENTRIA Herrich-Schäffer, 1856

930098 S. ipomaeae Doubleday, 1841 (Schizura) [NEW]
NOTE: The name of this species is often emended to "*ipomoeae*" (including by Franclemont, in: Hodges et al. 1983), to follow the spelling of the host plant genus, but the original spelling of *ipomaeae* stands as the valid name (Miller et al. 2021).
biguttatus (Packard, 1864) (Coelodasys)
cinereofrons (Packard, 1864) (Coelodasys)
compta (Walker, 1865) (Heterocampa)
confusa (Walker, 1865) (Drymonia)
corticea (Walker, 1865) (Heterocampa)
ducens (Walker, 1865) (Heterocampa)
ipomoeae; [various, no date] (Schizura) emend. [8005]
nigrosignata (Walker, 1865) (Heterocampa)
telifer (Grote, 1880) (Coelodasys)
ustipennis (Walker, 1865) (Heterocampa)
930098.1 S. obligata (Dyar, 1919) (Dicentria) [NEW]
930098.2 S. matheri Miller & Franclemont, 2021 (Schizura) [NEW]
930098.3 S. biedermani Barnes & McDunnough, 1911 (Schizura) 8004
clammenhoa (Dyar, 1914) (Dicentria)
930099 S. badia (Packard, 1864) (Oedemasia) 8006
significata (Walker, 1865) (Heterocampa)

Genus COELODASYS Packard, 1864

930100 C. unicornis (Smith, 1797) (Phalaena) 8007
deserta (Barnes, 1929) (Schizura)
edmandsii Packard, 1864 (Coelodasys)
humilis (Walker, 1865) (Edema)
semirufescens (Walker, 1865) (Edema)
930100.1 C. conspecta (Edwards, 1875) (Heterocampa) [NEW]
930101 C. errucata (Dyar, 1906) (Schizura) 8008
930102 C. apicalis Grote & Robinson, 1866 (Coelodasys) 8009

Genus OEDEMASIA Packard, 1864
HATIMA Walker, 1865

Oedemasia concinna group Miller, Wagner, Opler & Lafontaine, 2021

930103 O. concinna (Smith, 1797) (Phalaena) 8010
nitida Packard, 1864 (Oedemasia)
930103.1 O. salicis (Edwards, 1877) (Heterocampa) [NEW]
riversii (Behr, 1890) (Dryocampa)

Oedemasia leptinoides group Miller, Wagner, Opler & Lafontaine, 2021

930104 O. leptinoides (Grote, 1864) (Heterocampa) 8011
mustelina (Packard, 1864) (Cecrita)
930105 O. semirufescens (Walker, 1865) (Hatima) 8012
eximia Grote, 1881 (Oedemasia)

Genus CARBONICLAVA Miller & Wagner, 2021

930106 C. alpica (Benjamin, [1932]) (Ianassa) 8013
930106.1 C. alpicoides Miller & Franclemont, 2021 (Carboniclava) [NEW]

Genus OLIGOCENTRIA Herrich-Schäffer, 1855

93 0106.5 O. delicata (Dyar, 1905) (Janassa [sic]) 8020

Genus IANASSA Walker, 1855

NOTE: This genus has historically been misspelled "*Janassa*", resulting in *Phya* being introduced as an unnecessary replacement name (*Janassa* would be preoccupied by an older fish genus).

JANASSA; [various, no date] missp.
PHYA Druce, 1887
XYLINODES Packard, 1864

93 0106.7 I. lignicolor Walker, 1855 (Ianassa) 8017
lignigera (Walker, 1865) (Exaereta)
virgata Packard, 1864 (Ianassa)

93 0106.8 I. perangulata (Edwards, 1882) (Oedemasia) 8016

93 0107 I. pallida Strecker, 1899 (Ianassa) 8014

93 0107.1 I. paradisus (Benjamin, [1932]) (Schizura) 8019
delicatoides Benjamin, [1932] (Ianassa)

93 0108 I. coloradensis Edwards, 1885 (Janassa [sic]) 8015
cerriben (Dyar, 1915) (Dicentria)

93 0108.1 I. wagneri Miller & Franclemont, 2021 (Ianassa) [NEW]

93 0111 I. pinalensis Benjamin, [1932] (Ianassa) 8018

93 0111.1 I. guadalupensis Miller, 2021 (Ianassa) [NEW]

93 0111.2 I. diablo Miller & Franclemont, 2021 (Ianassa) [NEW]

Genus EUHYPARPAX Beutenmüller, 1893

RIBALDIA Dyar, 1916

93 0114 E. rosea Beutenmüller, 1893 (Euhyparpax) 8021

Genus HYPARPAX Hübner, [1825] 1806

SANGATA Walker, 1860

93 0115 H. aurora (Smith, 1797) (Phalaena) 8022
rosea (Walker, 1860) (Sangata)
venusta (Walker, 1865) (Dryocampa)

93 0116 H. venus Neumoegen, 1892 (Hyparpax) 8023

93 0117 H. minor Barnes & Benjamin, 1924 (Hyparpax) 8024

93 0118 H. aurostriata Graef, 1888 (Hyparpax) 8025

93 0119 H. perophoroides (Strecker, 1876) (Cosmia) 8026
tyria Slosson, 1894 (Hyparpax)

Tribe HAPIGIINI Miller, Janzen & Franclemont, 1997

Genus PSEUDHAPIGIA Schaus, 1901

93 0120 P. brunnea Schaus, 1901 (Pseudhapigia) 8029
estrella (Barnes, 1904) (Hapigia)

Subfamily NYSTALEINAE Forbes, 1948

ID INFO: Miller et al. (2021; genera and species).

Genus NYSTALEA Guenée, 1852

CONGRUIA Dyar, 1908
CYRRHESTA Walker, 1857
EUNYSTALEA Grote, 1895
PROELYMIOTIS Schaus, 1901

93 0121 N. indiana Grote, 1884 (Nystalea) 7945
guttalata Schaus, 1904 (Nystalea)

93 0122 N. collaris Schaus, 1910 (Nystalea) STRAY 7946
NOTE: Miller et al. (2021) considered this species to be a rare stray north of the Rio Grande in southern TX.
quaesita Draudt, 1932 (Nystalea)

93 0123 N. eutalanta Dyar, 1921 (Nystalea) 7947
NOTE: This species has been confused with *N. ebalea*, and there is some uncertainty as to whether they are separate species. DNA barcode data indicate that two taxa may be present in FL. Pending further research, we list Nearctic material under the name *N. eutalanta*, and treat NA ebulea records as misidentifications of it, following Miller et al. (2021).
ebalea of authors; (not Stoll, in: Cramer, [1781]) (Phalaena) misid.

Genus ELYMIOTIS Walker, 1857

CICYNNA Walker, [1858]

93 0124 E. notodontoides Walker, 1857 (Elymiotis) 7948
phaleroides (Walker, 1865) (Nystalea)
sericea (Walker, 1858) (Cicynna)

Genus ELASMIA Möschler, 1886

NOTE: Metzler & Knudson (2011) raised *Elasmia* from synonymy with *Hippia* Möschler, 1878, but that was accidentally omitted by Schintlmeister (2013).

HARMA Walker, [1858]

93 0125 E. packardii (Morrison, 1875) (Edema) 7949

93 0126 E. cave Metzler, 2011 (Elasmia) [NEW]
NOTE: This recently described species was previously misidentified as *E. insularis*. The latter is restricted to Cuba (Metzler & Knudson 2011).
insularis of authors; (not Grote, 1866) (Edema) misappl. *[7950]*

93 0126.1 E. mandela (Druce, 1887) (Edema) [NEW]
NOTE: The taxon *santaana* was described recently as a subspecies, but Miller et al. (2021) treat it as a synonym.
santaana Metzler & Knudson, 2011 (Elasmia)

Genus SYMMERISTA Hübner, [1822] 1821

EDEMA Walker, 1855

Symmerista albifrons group Miller, Wagner, Opler & Lafontaine, 2021

93 0127 S. albifrons (Smith, 1797) (Phalaena) 7951
albicosta (Hübner, 1809) (Noctua)

93 0128 S. canicosta Franclemont, 1946 (Symmerista) 7952

93 0129 S. leucitys Franclemont, 1946 (Symmerista) 7953

Symmerista suavis group Miller, Wagner, Opler & Lafontaine, 2021

93 0130 S. suavis (Barnes, 1901) (Edema) [NEW]
sauvis; Franclemont, 1983 (Symmerista) missp. *[7954]*

93 0130.1 S. schmidti Miller, 2021 (Symmerista) [NEW]

93 0130.2 S. solistella Miller, 2021 (Symmerista) [NEW]

Symmerista zacualpana group Miller, Wagner, Opler & Lafontaine, 2021

93 0131 S. zacualpana Draudt, 1932 (Symmerista) 7955

Genus NYCTEROTIS Felder, 1874

BETOLA Schaus, 1901
PENTOBESA Schaus, 1901

93 0132.1 N. roberta (Dyar, 1909) (Dasylophia) [NEW]
valta of authors; (not Schaus, 1901) (Pentobesa) misid. *[7956]*
NOTE: Previous reports of "*Pentobesa valta*" from the NA fauna (Franclemont, in: Hodges et al. 1983; Lafontaine & Schmidt 2010) refer to *N. roberta* (Miller et al. 2021).

Genus DASYLOPHIA Packard, 1864

93 0133 D. anguina (Smith, 1797) (Phalaena) 7957
cana (Walker, 1869) (Edema)
cucullifera (Herrich-Schäffer, 1855) (Drymonia)
punctata (Walker, 1865) (Heterocampa)
signata (Walker, 1865) (Xylina)

93 0133.1 D. puntagorda Slosson, 1892 (Dasylophia) [NEW]

93 0133.2 D. saturata Barnes, 1901 (Dasylophia) [NEW]

93 0134 D. thyatiroides (Walker, 1862) (Heterocampa) 7958
interna Packard, 1864 (Dasylophia)
tripartita (Walker, 1865) (Heterocampa)

93 0135.1 D. melanopa Barnes, 1901 (Dasylophia) [NEW]
NOTE: Raised to species status from the synonymy of *D. seriata* by Miller et al. (2021).
seriata of authors; (not Druce, 1887) (Oedemasia) misappl. *[7959]*

Genus NOTELA Schaus, 1901

93 0136 N. jaliscana Schaus, 1901 (Notela) 7960
ramosa Draudt, 1932 (Notela) unavail.

Genus DIDUGUA Druce, 1891

93 0137 D. argentilinea Druce, 1891 (Didugua) 7961

Subfamily DIOPTINAE Walker, [1865] 1862

ID INFO: Miller et al. (2021; genera and species).

Genus PHRYGANIDIA Packard, 1864

93 0138 P. californica Packard, 1864 (Phryganidia) 8031

Genus SCOTURA Walker, 1854 (excl.)

930139E S. annulata (Guérin-Méneville, 1844) (Lithosia) EXCL. 8032

NOTE: Reported from NA based on a specimen in the USNM from Brownsville, TX, but no such specimen was found there or in any other collection by Miller (2009), so it was removed from NA list.

Subfamily DICRANURINAE Duponchel, 1845

ID INFO: Miller et al. (2021; genera and species).

Genus LIRIMIRIS Walker, 1865

930139.5 L. naglei Miller, 2021 (Lirimiris) [NEW]

Genus TRUNCAPTERA Becker, 2014

930140.1 T. inopinata (Draudt, 1932) (Lirimiris) [NEW]
truncata of authors; (not Herrich-Schäffer, 1856) (Notodonta) misid. *[8027]*

NOTE: This species was listed in previous NA checklists as *Lirimiris truncata*, but Becker (2014) determined that the correct name for NA records is *Truncaptera inopinata*.

90. Family EREBIDAE [Leach, 1815] (tussock moths, tiger moths, underwings, and allies)

by B. Christian Schmidt

The erebids are a hyper-diverse group, and include both the smallest and largest species in all of Noctuoidea. The NA species range in size from 12 mm in wingspan (*Hypenodes* spp.; Hypenodinae) to over 200 mm (*Thysania* spp; Erebinae). As one of the most speciose animal families on the planet, erebids exhibit exceptional diversity in form, ecological function, size, and habits, and it is not possible to make many meaningful generalizations about them. Even within large subfamilies such as Arctiinae and Erebinae, variation in form and biology is considerable. Adult and larval habitus show extremes in variation, from brightly colored and aposematic to cryptic and dull-colored. Larval diets are similarly diverse, including leaf litter (many Herminiinae), fungi (Boletobiinae, Scolecocampinae), lichens (Arctiinae: Lithosiini), and gymnosperms and angiosperms (many subfamilies). Compared to Noctuidae, the proportion of economically important species is considerably lower, the notable exception being Lymantriinae, which includes forest pests such as the Spongy Moth (*Lymantria dispar*; previously known as the Gypsy Moth), the Satin Moth (*Leucoma salicis*), and the Douglas-fir Tussock Moth (*Orgyia pseudotsugata*).

In part due to their hyper-diversity, the true affinities of the Erebidae were not fully understood until the advent of molecular phylogenetics. Groups such as the Arctiinae and Lymantriinae were ranked as separate families until recently, whereas other erebid lineages were included in the Noctuidae. The Scoliopteryginae and Anominae, previously treated as tribes of Calpinae, have been accorded status as separate subfamilies (Zahiri et al. 2012). Previously part of the core erebines (Erebinae), the Eulepidotinae was accorded subfamily status, based on molecular and morphological evidence (Lafontaine & Schmidt 2010; Zahiri et al. 2012). Despite the major advances in our understanding of erebid evolutionary history (e.g., Mitchell et al. 2000; Zahiri et al. 2012), the relationships among groups within the family are still poorly resolved, and further classification changes will undoubtedly occur, especially resulting from further study of the tropical realm where erebids are most diverse. Conversely, the circumscription of a number of well-defined groups is unlikely to change, such as the Lymantriinae, Arctiinae, and Herminiinae.

The taxonomic literature on Erebidae is vast, and much of it deals primarily with the Neotropical realm. At the subfamily level, Ferguson (1978) treated all of the NA Lymantriinae, but the largest genus, *Dasychira*, is in need of revision. A checklist of the Arctiinae was published by Ferguson & Opler (2006), with an updated and corrected version by Schmidt & Opler (2008). All genera in the Herminiinae are in need of revision, and there are more unrecognized species in herminiines than in any other NA erebid subfamily. Zaspel & Branham (2008) provide a global checklist of the revised concept of Calpinae (but excluding the Phyllodini). The subfamily Anobinae was reviewed by Lafontaine & Walsh (2010).

The world catalog by Poole (1989) included all erebids other than Lymantriinae and Arctiinae. The family was covered in the NA Noctuoidea checklist and updates published by Lafontaine & Schmidt (2010, 2011, 2013a, 2015) and Schmidt et al. (2018). About 25,000 species of Erebidae are known globally; 994 species (including one extinct and one extirpated species) are recorded in NA, in 16 subfamilies.

Subfamily LYMANTRIINAE Hampson, [1893] 1892

Tribe LYMANTRIINI Hampson, [1893] 1892

Genus LYMANTRIA Hübner, 1819

ERASTA Gistel, 1848
LIPARIS Ochsenheimer, 1810
LYMANTICA; Collenette, 1936 missp.
MORASA Walker, 1855
PALASEA Wallengren, 1863
SAROTHROPYGA Felder, 1874

Subgenus PORTHETRIA Hübner, 1819

BARHONA Moore, 1879
ENOME Walker, 1855
PEGELLA Walker, 1866
SERICARIA Berthold, 1827
SERIVARIA; [Pohl], 2016 missp.

93 0141 L. dispar (Linnaeus, 1758) (Phalaena) I 8318

NOTE: This species, formerly known as the Gypsy Moth, is now referred to as the Spongy Moth. It was introduced from Europe to NA (MA) in about 1869 for silk production. It escaped and quickly became an important defoliator of eastern hardwood forests.

ssp. a. dispar (Linnaeus, 1759) (Phalaena)

andalusiaca Reinig, 1938 (Lymantria)
asiatica Vnukowskij, 1926 (Lymantria)
bocharae Goldschmidt, 1940 (Lymantria)
chosensis Goldschmidt, 1940 (Lymantria)
erebus (Mieg, 1886) (Ocneria)
hokkaidoensis Goldschmidt, 1940 (Lymantria)
kolthoffi Bryk, [1948] (Lymantria)
koreibia Bryk, [1948] (Lymantria)
mediterraneae Goldschmidt, 1940 (Lymantria)
praeterea Kardakoff, 1928 (Lymantria)

93 0141.1E L. monacha (Linnaeus, 1758) (Phalaena) EXCL. [NEW]

NOTE: Holland (1903) listed this species for NA based on a report of an established population in Brooklyn, NY, but that is deemed erroneous, as no records are known, and Ferguson (1978) excluded it from the NA fauna (contributed by Dave Holden).

Tribe ORGYIINI Wallengren, 1861

Genus GYNAEPHORA Hübner, 1819
CLADOPHORA Hübner, 1822
DASORGYIA Staudinger, 1881
KONOKAREHA Matsumura, 1928

930142 G. rossii (Curtis, 1835) (Laria) H 8290
daisetsuzana (Matsumura, 1928) (Konokareha)
lugens Kozhantschikov, 1948 (Gynaephora)
relictus (Bang-Haas, 1927) (Dasychira)
930143 G. groenlandica (Wocke, 1874) (Dasychira) 8291

Genus DASYCHIRA Hübner, 1819
PARORGYIA Packard, 1864

930144 D. tephra Hübner, 1809 (Dasychira) 8292
930145 D. dorsipennata (Barnes & McDunnough, 1919) (Olene) 8293
atomaria Walker, 1856 (Dasychira)
930146 D. vagans (Barnes & McDunnough, 1913) (Olene) 8294
ssp. a. vagans (Barnes & McDunnough, 1913) (Olene)
ssp. b. grisea (Barnes & McDunnough, 1913) (Olene)
willingi (Barnes & McDunnough, 1913) (Olene)
930147 D. mescalera Ferguson, 1977 (Dasychira) 8295
930148 D. basiflava (Packard, 1864) (Parorgyia) 8296
clintoni (Grote & Robinson, 1866) (Parorgyia)
930149 D. matheri Ferguson, 1977 (Dasychira) 8297
930150 D. meridionalis (Barnes & McDunnough, 1913) (Olene) 8298
ssp. a. meridionalis (Barnes & McDunnough, 1913) (Olene)
ssp. b. memorata Ferguson, 1978 (Dasychira)
achatina (Smith, 1797) (Phalaena)
ssp. c. kerrvillei (Barnes & McDunnough, 1913) (Olene)
ssp. d. pallorosa Ferguson, 1978 (Dasychira)
930151 D. atrivenosa (Palm, 1873) (Parorgyia) 8299
930152 D. cinnamomea (Grote & Robinson, 1866) (Parorgyia) 8300
aridensis (Benjamin, 1922) (Olene)
930153 D. leucophaea (Smith, 1797) (Phalaena) 8301
930154 D. obliquata (Grote & Robinson, 1866) (Parorgyia) 8302
lemmeri (Barnes & Benjamin, 1927) (Olene)
parallela (Grote & Robinson, 1866) (Olene)
930155 D. dominickaria Ferguson, 1977 (Dasychira) 8303
930156 D. plagiata (Walker, 1865) (Edema) 8304
interposita (Dyar, 1911) (Olene)
montana (Beutenmüller, 1903) (Olene)
pini (Dyar, 1911) (Olene)
930157 D. pinicola (Dyar, 1911) (Olene) 8305
930158 D. grisefacta (Dyar, 1911) (Olene) 8306
ssp. a. grisefacta (Dyar, 1911) (Olene)
bonniwelli (Barnes & Benjamin, 1924) (Olene)
ssp. b. ella Bryk, 1934 (Dasychira)
styx (Barnes & McDunnough, 1911) (Olene)
930159 D. manto (Strecker, 1900) (Parorgyia) 8307

Genus ORGYIA Ochsenheimer, 1810
ACYPHAS Walker, 1855
APTEROGYNIS Guenée, 1875
CLETHROGYNA Rambur, 1866
HEMEROCAMPA Dyar, 1897
MICROPTEROGYNA Rambur, 1866
NOTOLOPHUS Germar, 1812
TEIA Walker, 1855
THYLACIGYNA Rambur, 1866
TRICHIOSOMA Lucas, 1849

930160 O. antiqua (Linnaeus, 1758) (Phalaena) extralim. H 8308
ssp. a. nova Fitch, 1863 (Orgyia)
ssp. b. badia Edwards, 1874 (Orgyia)
ssp. c. argillacea Ferguson, 1978 (Orgyia)
930161 O. vetusta Boisduval, 1852 (Orgyia) 8309
gulosa Edwards, 1881 (Orgyia)
930162 O. magna Ferguson, 1977 (Orgyia) 8310
930163 O. cana Edwards, 1881 (Orgyia) 8311
930164 O. pseudotsugata (McDunnough, 1921) (Hemerocampa) 8312
ssp. a. pseudotsugata (McDunnough, 1921) (Hemerocampa)
ssp. b. morosa Ferguson, 1978 (Orgyia)
ssp. c. benigna Ferguson, 1978 (Orgyia)
930165 O. detrita Guérin-Méneville, 1831 (Orgyia) 8313
inornata Beutenmüller, 1890 (Orgyia)
kendalli Riotte, 1972 (Orgyia)
930166 O. definita Packard, 1864 (Orgyia) 8314
930167 O. leuschneri Riotte, 1972 (Orgyia) 8315
ssp. a. leuschneri Riotte, 1972 (Orgyia)
ssp. b. rindgei Riotte, 1972 (Orgyia)
930168 O. leucostigma (Smith, 1797) (Phalaena) 8316
ssp. a. leucostigma (Smith, 1797) (Phalaena)
leucographa (Geyer, 1832) (Cladophora)
meridionalis Riotte, 1974 (Orgyia)
ssp. b. intermedia Fitch, 1856 (Orgyia)
borealis Fitch, 1856 (Orgyia)
obliviosa Edwards, 1886 (Orgyia)
ssp. c. plagiata (Walker, 1855) (Acyphas)
wardi Riotte, 1971 (Orgyia)
ssp. d. sablensis Neil, 1979 (Orgyia)
ssp. e. oslari Barnes, 1900 (Orgyia)
libera Strecker, 1900 (Orgyia)
930169 O. falcata Schaus, 1896 (Orgyia) 8317

Tribe LEUCOMINI Grote, 1895

Genus LEUCOMA Hübner, 1822
LARIA Schrank, 1802
LEUCOSIA Rambur, 1866
NYMPHYXIS Grote, 1895
STILPNOTIA Westwood, 1841

930170 L. salicis (Linnaeus, 1758) (Phalaena) I 8319
NOTE: Introduced from Eurasia, first found in NA in MA and BC about 1920.

Tribe NYGMIINI Holloway, 1999

Genus EUPROCTIS Hübner, 1819
ADLULLIA Walker, 1865
ANTIPHA Walker, 1855
ARNA Walker, 1855
ARTAXA Walker, 1855
BEMBINA Walker, 1865
CATAPHRACTES Felder, 1874
CHIONOPHASMA Butler, 1886
CHOEROTRICHA Felder, 1874
CISPIA Walker, 1855
COZOLA Walker, 1865
DULICHIA Walker, 1855
GOGANA Walker, 1866
LACIDA Walker, 1855
LOPERA Walker, 1855
NYGMIA Hübner, 1822
ORVASCA Walker, 1865
PORTHESIA Stephens, [1828]
SOMENA Walker, 1856
TEAROSOMA Felder, 1874
THEMACA Walker, 1865
UROCOMA Herrich-Schäffer, 1856
UTIDAVA Walker, 1862

930171 E. chrysorrhoea (Linnaeus, 1758) (Phalaena) I 8320
NOTE: Introduced from Europe to NA, first detected in 1897 (Zahiri et al. 2017).
phaeorrhoea (Donovan, 1813) (Bombyx)
930172E E. similis (Fuessly, 1775) (Phalaena) EXCL. 8321
NOTE: This species has been found several times in NA, but all are thought to be unestablished artificial introductions; no reproducing populations have ever been found (Zahiri et al. 2017).

Subfamily ARCTIINAE [Leach, 1815]

Tribe LITHOSIINI Billberg, 1820

Subtribe EUDESMIINA Bendib & Minet, 1999

Genus EUDESMIA Hübner, 1823
GERBA Walker, 1865
RUSCINO Walker, 1854

93 0174 E. arida (Skinner, 1906) (Ruscino) 8096
93 0175 E. menea (Drury, 1782) (Arctia) [NEW]
NOTE: Synonymy of *laetifera* by Ferguson & Opler (2006).
laetifera (Walker, [1865]) (Ruscino) *[8097]*
latifasciatus (Butler, 1875) (Ruscino)

Subtribe CISTHENINA Bendib & Minet, 1999

Genus CISTHENE Walker, 1854
ID INFO: Knowlton (1967).
BYSSOPHAGA Stretch, 1872
ILLICE Walker, 1859
OZODANIA Dyar, 1899
PYRALIDIA Felder, 1868

93 0176 C. subrufa (Barnes & McDunnough, 1913) (Ozodania) 8059
93 0177 C. unifascia Grote & Robinson, 1868 (Cisthene) 8060
mexicana (Draudt, 1918) (Illice)
ruptifascia (Barnes & McDunnough, 1918) (Illice)
93 0178 C. kentuckiensis (Dyar, 1904) (Illice) 8061
93 0179 C. liberomacula (Dyar, 1904) (Illice) 8062
basijuncta (Barnes & McDunnough, 1918) (Illice)
93 0180 C. deserta (Felder, 1868) (Pyralidia) 8063
grisea Packard, 1872 (Cisthene)
nexa (Boisduval, 1869) (Lithosia)
93 0181 C. faustinula (Boisduval, 1869) (Lithosia) 8064
fusca Stretch, 1872 (Cisthene)
93 0182 C. dorsimacula (Dyar, 1904) (Illice) 8065
93 0183 C. tenuifascia Harvey, 1875 (Cisthene) 8066
interrupta (Draudt, 1918) (Illice)
93 0183.1 C. schwarziorum (Dyar, 1899) (Ozodania) N. STAT. [NEW]
NOTE: The taxon *schwarziorum* was previously treated as a western subspecies of *C. tenuifascia*; it is here raised to species status based on differences in DNA and genitalic morphology (n. stat.).
93 0184 C. plumbea Stretch, 1885 (Cisthene) 8067
flavicosta (Draudt, 1918) (Illice)
gamma (Dyar, 1904) (Illice)
injecta (Dyar, 1904) (Illice)
93 0185 C. striata Ottolengui, 1898 (Cisthene) 8068
apicipicta (Strand, 1922) (Illice)
93 0186 C. perrosea (Dyar, 1904) (Illice) 8069
93 0187 C. angelus (Dyar, 1904) (Illice) 8070
93 0188 C. subjecta Walker, 1854 (Cisthene) 8071
bellicula (Dyar, 1921) (Illice)
93 0189 C. packardii (Grote, 1863) (Hypoprepia) 8072
93 0190 C. conjuncta (Barnes & McDunnough, 1913) (Illice) 8073
93 0191 C. barnesii (Dyar, 1904) (Illice) 8074
costimacula (Draudt, 1918) (Illice)
flava (Draudt, 1919) (Illice)
flavula (Barnes & McDunnough, 1918) (Illice)
93 0192 C. picta (Barnes & McDunnough, 1918) (Illice) 8075
texensis (Draudt, 1918) (Illice)
93 0193 C. juanita Barnes & Benjamin, 1925 (Cisthene) 8076
93 0194 C. coronado Knowlton, 1967 (Cisthene) 8077
93 0195 C. martini Knowlton, 1967 (Cisthene) 8078

Genus PROPYRIA Hampson, 1898 (excl.)

93 0196E P. schausi (Dyar, 1898) (Lycomorpha) EXCL. 8082
NOTE: Removed from the NA list by Lafontaine & Schmidt (2015). It had been included due to a historical error.

Genus LYCOMORPHA Harris, 1839
ANATOLMIS Packard, 1864
PREPODES Herrich-Schäffer, 1855

93 0197 L. grotei (Packard, 1864) (Anatolmis) 8083
ssp. a. grotei (Packard, 1864) (Anatolmis)
palmerii Packard, 1872 (Lycomorpha)
ssp. b. pulchra Dyar, 1898 (Lycomorpha)
93 0198 L. regulus (Grinnell, 1903) (Anatolmis) 8084
93 0199 L. fulgens (Edwards, 1881) (Anatolmis) 8085
tenuimargo Holland, 1903 (Lycomorpha)
93 0200 L. splendens Barnes & McDunnough, 1912 (Lycomorpha) 8086
93 0201 L. pholus (Drury, 1773) (Sphinx) 8087
ssp. a. pholus (Drury, 1773) (Sphinx)
ssp. b. miniata Packard, 1872 (Lycomorpha)
93 0202 L. desertus Edwards, 1881 (Lycomorpha) 8088

Genus LYCOMORPHODES Hampson, 1900
ID INFO: Adams (1992).

93 0203 L. sordida (Butler, 1877) (Leptidule) STRAY [NEW]

Genus HYPOPREPIA Hübner, 1831
ID INFO (partial): Palting et al. (2018).

93 0204 H. miniata (Kirby, 1837) (Lithosia) 8089
ssp. a. miniata (Kirby, 1837) (Lithosia)
vittata (Harris, 1841) (Gnophria)
ssp. b. mississippiensis Barnes & Benjamin, 1926 (Hypoprepia)
93 0205 H. fucosa Hübner, [1831] (Hypoprepia) 8090
ssp. a. fucosa Hübner, [1831] (Hypoprepia)
ssp. b. subornata Neumoegen & Dyar, 1893 (Hypoprepia)
dolli Dyar, 1906 (Hypoprepia)
inornata Ottolengui, 1895 (Hypoprepia)
ssp. c. tricolor (Fitch, 1857) (Atolmis)
plumbea Edwards, 1886 (Hypoprepia)
93 0206 H. cadaverosa Strecker, 1878 (Hypoprepia) 8091
93 0207 H. inculta Edwards, 1882 (Hypoprepia) 8092
muelleri Dyar, 1907 (Hypoprepia)
93 0207.1 H. lampyroides Palting & Ferguson, 2018 (Hypoprepia) [NEW]

Genus PTYCHOGLENE Felder, 1874

93 0208 P. coccinea (Edwards, 1886) (Lycomorpha) 8079
93 0209 P. phrada Druce, 1889 (Ptychoglene) 8080
flammans Dyar, 1898 (Ptychoglene)
93 0210 P. sanguineola (Boisduval, 1870) (Lithosia) 8081

Genus HAEMATOMIS Schaus, 1899

93 0211 H. uniformis Schaus, 1899 (Haematomis) [NEW]
NOTE: Identity of NA records was corrected from *H. mexicana* by Ferguson & Opler (2006).
mexicana of authors; (not Druce, 1885) (Lithosia) misid. *[8093]*

Genus RHABDATOMIS Dyar, 1907
ID INFO: Field (1964), Donahue (1993).

93 0212 R. laudamia (Druce, 1885) (Lithosia) [NEW]

Genus BRUCEIA Neumoegen, 1893

93 0213 B. pulverina Neumoegen, 1893 (Bruceia) 8094
93 0214 B. hubbardi Dyar, 1898 (Bruceia) 8095

Genus CLEMENSIA Packard, 1864
ID INFO: Schmidt & Sullivan (2018).
REPA Walker, 1866
UXIA Walker, 1866

93 0215 C. albata Packard, 1864 (Clemensia) 8098
albida (Walker, 1866) (Uxia)
cana (Walker, 1866) (Repa)
93 0215.1 C. umbrata Packard, 1872 (Clemensia) [NEW]
irrorata Edwards, 1873 (Clemensia)
93 0216 C. ochreata Schmidt & Sullivan, 2018 (Clemensia) [NEW]
NOTE: Listed as an undescribed species near *C. patella* by Lafontaine & Schmidt (2010) and subsequently described by Schmidt & Sullivan (2018).
ochracea; Schmidt, Lafontaine & Troubridge, 2018 (Clemensia) missp.
patella of authors; (not Druce, 1885) (Nola) misappl.

Subtribe ACSALINA Bendib & Minet, 1999

ID INFO: Lafontaine et al. (1982).

NOTE: The enigmatic and monotypic tribe Acsalina forms a well-supported sister group to Lithosiina (Dowdy et al. 2020).

Genus ACSALA Benjamin, 1935

930216.5 A. anomala Benjamin, 1935 (Acsala) 8104.1

Subtribe LITHOSIINA Billberg, 1820

Genus MANULEA Wallengren, 1863

ID INFO: Dubatolov (2015).

EILEMA Hübner, 1819

Subgenus SETEMA de Freina & Witt, 1984

930217 M. bicolor (Grote, 1864) (Lithosia) 8043
argillacea (Packard, 1864) (Lithosia)

930217.1E M. complana (Linnaeus, 1758) (Phalaena) EXCL. 8044
NOTE: This species is restricted to Eurasia. The synonym *allegheniensis* was described from NA, but the sole known NA specimen is assumed to be an accidental unestablished introduction (Lafontaine & Schmidt 2010).
allegheniensis (Holland, 1903) (Crambidia) (excl.)

Genus CRAMBIDIA Packard, 1864

ID INFO (partial): Lewis (2014).

930218 C. lithosioides Dyar, 1898 (Crambidia) 8045
930219 C. pallida Packard, 1864 (Crambidia) 8045.1
930220 C. uniformis Dyar, 1898 (Crambidia) 8046
930221 C. dusca Barnes & McDunnough, 1913 (Crambidia) 8047
930222 C. myrlosea Dyar, 1917 (Crambidia) 8048
930223 C. suffusa Barnes & McDunnough, 1912 (Crambidia) 8049
930224 C. impura Barnes & McDunnough, 1913 (Crambidia) 8050
930225 C. casta (Packard, 1869) (Lithosia) 8051
candida (Edwards, 1874) (Lithosia)
930226 C. pura Barnes & McDunnough, 1913 (Crambidia) 8052
930227 C. cephalica (Grote & Robinson, 1870) (Lithosia) 8053
930227.1 C. xanthocorpa Lewis, 2014 (Crambidia) [NEW]

Genus AGYLLA Walker, 1854

CRAMBOMORPHA Felder, 1868
MACROCRAMBUS Kirby, 1892
SALAPOLA Walker, 1863

930228 A. septentrionalis Barnes & McDunnough, 1911 (Agylla) 8054

Genus INOPSIS Felder, 1874

930229 I. modulata (Edwards, 1884) (Ctenucha) 8055
930230 I. funerea (Grote, 1883) (Pygoctenucha) 8056

Genus GNAMPTONYCHIA Hampson, 1900

930231 G. ventralis Barnes & Lindsey, 1921 (Gnamptonychia) 8057

Genus GARDINIA Kirby, 1892

GARDINICA Strand, 1932

930232 G. anopla Hering, 1925 (Gardinia) 8058
anopia; Bryk, 1931 (Gardinia) missp.

Tribe ARCTIINI [Leach, 1815]

Subtribe ARCTIINA [Leach, 1815]

Genus CHELIS Rambur, 1866

ID INFO (partial): Ferguson (1985b).

NOTE: The genera *Holoarctia*, *Neoarctia*, and *Hyperborea* were synonymized under *Chelis* by Rönkä et al. (2016).

CENTRARCTIA Dubatolov, 1992
HOLOARCTIA Ferguson, 1984
HYPERBOREA Grum-Grschmaïlo, 1900
NEOARCTIA Neumoegen & Dyar, 1893
PALEARCTIA Ferguson, 1984
SIBIRARCTIA Dubatolov, 1987
TANCREA Püngeler, 1898

930233 C. sordida (McDunnough, 1921) (Neoarctia) 8161
cervini of authors; (not Fallou, 1864) (Nemeophila) misappl.
NOTE: *Chelis cervini* has been variously listed as occurring in NA based on records of *C. sordida*, previously treated as a subspecies of *C. cervini*. Poole & Gentili (1996) listed this species as *Holarctia sordida*, a genus misspelling and misplacement.

930234 C. puengeleri (Bang-Haas, 1927) (Orodemnias) extralim. H [NEW]
NOTE: Reported from NA by Schmidt & Opler (2008).
ssp. a. fridolini (Torstenius, 1971) (Orodemnias)
ssp. b. sibirica (Dubatolov, 2007) (Holoarctia)
bicolor (Draudt, 1931) (Orodemnias)
immaculata (Draudt, 1931) (Orodemnias)

930235 C. beanii (Neumoegen, 1891) (Antarctia) 8160
fuscosa (Neumoegen, 1891) (Antarctia)

930236 C. brucei (Edwards, 1888) (Arctia) 8159

930237 C. lafontainei (Ferguson, 1985) (Neoarctia) [NEW]

930238 C. czekanowskii (Grum-Grschmaïlo, 1900) (Hyperborea) 8200
czecanousci; (Hampson, 1920) (Hyperborea) emend.

Genus APANTESIS Walker, 1855

ID INFO (partial): Schmidt (2009b), Ferguson (1985b).

NOTE: The genera *Holarctia*, *Grammia*, and *Notarctia* were synonymized under *Apantesis* by Rönkä et al. (2016).

GRAMMIA Rambur, 1866
HOLARCTIA Smith, 1938
MIMARCTIA Neumoegen & Dyar, 1894
NOTARCTIA Smith, 1938
ORODEMNIAS Wallengren, 1885

930239 A. obliterata (Stretch, 1885) (Arctia) H [NEW]
turbans (Christoph, 1892) (Arctia) *[8174]*

930240 A. arge (Drury, 1773) (Phalaena) 8199
dione (Fabricius, 1775) (Bombyx)
incarnatorubra (Goeze, 1781) (Phalaena)
nervosa (Neumoegen & Dyar, 1893) (Euprepia)
strigosa (Stretch, 1906) (Arctia)

930241 A. doris (Boisduval, 1869) (Chelonia) 8198
ssp. a. doris (Boisduval, 1869) (Chelonia)
michabo (Grote, 1875) (Arctia)
nerea (Boisduval, 1869) (Chelonia)
ssp. b. minea (Slosson, 1892) (Arctia)

930242 A. phyllira (Drury, 1773) (Phalaena) 8194
b-ata (Goeze, 1781) (Phalaena)
conspicua (Stretch, 1906) (Arctia)
dodgei (Butler, 1881) (Arctia)
favoritella Strand, 1919 (Apantesis)
oithona (Strecker, 1878) (Arctia) *[8195]*
rectilinea (French, 1879) (Arctia)

930243 A. placentia (Smith, 1797) (Phalaena) 8191
flammea (Neumoegen, 1881) (Arctia)

930244 A. virgo (Linnaeus, 1758) (Phalaena) 8197
ssp. a. virgo (Linnaeus, 1758) (Phalaena)
citrinaria (Neumoegen & Dyar, 1893) (Euprepia)
simplex (Stretch, 1906) (Arctia)
ssp. b. gigas (Schmidt, 2009) (Grammia)

930245 A. anna (Grote, 1864) (Arctia) 8176
persephone (Grote, 1864) (Arctia)

930246 A. parthenice (Kirby, 1837) (Callimorpha) 8196
approximata (Stretch, 1885) (Arctia)
circa (Stretch, 1906) (Arctia)
intermedia (Stretch, 1873) (Arctia)
saundersii (Grote, 1864) (Arctia)
stretchii (Grote, 1875) (Arctia)

930247 A. virguncula (Kirby, 1837) (Callimorpha) 8175
otiosa (Neumoegen & Dyar, 1893) (Euprepia)

930248 A. speciosa (Möschler, 1864) (Arctia) [NEW]
ssp. a. speciosa (Möschler, 1864) (Arctia)
ssp. b. celineata (Schmidt, 2009) (Grammia)

930249 A. philipiana (Ferguson, 1985) (Grammia) [NEW]
phillipiana; (Ferguson, 1985) (Grammia) missp.

930250 A. quenseli (Paykull, 1793) (Bombyx) extralim. H 8172
ssp. a. gelida (Möschler, 1849) (Euprepia)

930251 A. margo (Schmidt, 2009) (Grammia) [NEW]
NOTE: Prior to its description in 2009, this species was included under the concept of *A. celia*, now a synonym of *A. figurata*.

930252 A. franconia (Edwards, 1888) (Arctia) [NEW]

930253 A. figurata (Drury, 1773) (Phalaena) 8188

celia (Saunders, 1863) (Arctia) *[8187]*
ceramica (Hübner, 1820) (Euplagia)
excelsa (Neumoegen, 1883) (Arctia)
lugubris (Hulst, 1886) (Arctia)
preciosa Nixon, 1911 (Apantesis)
snowi (Grote, 1875) (Arctia)

93 0254 A. f-pallida (Strecker, 1878) (Arctia) 8189
moierra Dyar, 1914 (Apantesis)
quadranotata (Strecker, 1878) (Arctia) *[8190]*
sociata Barnes & McDunnough, 1910 (Apantesis) *[8192]*

93 0255 A. incorrupta (Edwards, 1881) (Arctia) [NEW]
geneura of authors; (not Strecker, 1880) (Arctia) misappl. *[8180]*
ochracea (Neumoegen, 1883) (Arctia)
sulphurica (Neumoegen, 1885) (Arctia)

93 0256 A. allectans (Ferguson, 1985) (Grammia) [NEW]
93 0257 A. ursina (Schmidt, 2009) (Grammia) [NEW]
93 0258 A. nevadensis (Grote & Robinson, 1866) (Arctia) 8179
ssp. a. nevadensis (Grote & Robinson, 1866) (Arctia)
ssp. b. superba (Stretch, 1873) (Arctia)
ssp. c. geneura (Strecker, 1880) (Arctia)
ssp. d. gibsoni McDunnough, 1937 (Apantesis) [8182]
ssp. e. vivida (Schmidt, 2009) (Grammia)
93 0259 A. yukona (Schmidt, 2009) (Grammia) [NEW]
93 0260 A. behrii (Stretch, 1872) (Arctia) [NEW]
shastanensis (French, 1881) (Arctia)
93 0261 A. brillians (Schmidt, 2009) (Grammia) [NEW]
93 0262 A. fergusoni (Schmidt, 2009) (Grammia) [NEW]
93 0263 A. bolanderi (Stretch, 1872) (Arctia) 8183
93 0264 A. williamsii (Dodge, 1871) (Arctia) 8186
ssp. a. williamsii (Dodge, 1871) (Arctia)
determinata (Neumoegen, 1881) (Arctia)
villiamsi; Hampson, 1901 (Apantesis) emend.
ssp. b. tooele Barnes & McDunnough, 1910 (Apantesis)
confluentis Strand, 1919 (Apantesis)
ophir Barnes & McDunnough, 1910 (Apantesis)
93 0265 A. favorita (Neumoegen, 1890) (Arctia) 8193
93 0266 A. elongata (Stretch, 1885) (Arctia) 8184
dieckii (Neumoegen, 1890) (Arctia)
93 0267 A. yavapai (Schmidt, 2009) (Grammia) [NEW]
93 0268 A. bowmani (Ferguson & Schmidt, 2007) (Grammia) [NEW]
93 0269 A. blakei (Grote, 1865) (Arctia) 8185
blacei; Hampson, 1901 (Apantesis) emend.
93 0270 A. cervinoides (Strecker, 1876) (Arctia) 8173
93 0271 A. ornata (Packard, 1864) (Callarctia) 8177
achaia (Grote & Robinson, 1868) (Arctia)
barda (Edwards, 1881) (Arctia)
californica Cassino, 1917 (Apantesis)
dahurica (Grote & Robinson, 1868) (Arctia)
maculosa (Stretch, 1906) (Arctia)
ochracea (Stretch, 1872) (Arctia)
ochracearivulosa (Stretch, 1906) (Arctia)
perpicta (Dyar, 1893) (Arctia)
rivulosa (Stretch, 1906) (Arctia)
simplicior (Butler, 1881) (Arctia)
sulphuricella Strand, 1919 (Apantesis)
93 0272 A. hewletti Barnes & McDunnough, 1918 (Apantesis) 8178
93 0273 A. complicata (Walker, 1865) (Arctia) [NEW]
93 0274X A. edwardsii (Stretch, 1872) (Arctia) EXTINCT [NEW]
NOTE: Presumed extinct, this species formerly occurred only at San Francisco, CA (Schmidt 2009b).
93 0275 A. eureka (Ferguson & Schmidt, 2007) (Grammia) [NEW]
93 0276 A. proxima (Guérin-Méneville, 1844) (Chelonia) 8181
autholea (Boisduval, 1869) (Chelonia)
docta (Walker, 1855) (Euprepia)
mexicana (Grote & Robinson, 1866) (Arctia)
93 0277 A. arizoniensis (Stretch, 1873) (Arctia) [NEW]
NOTE: Raised from synonymy under *A. proxima* by Ferguson & Opler (2006).
mormonica (Neumoegen, 1885) (Arctia)
93 0278 A. phalerata (Harris, 1841) (Arctia) 8169
incarnata (Stretch, 1906) (Arctia)
incompleta (Butler, 1881) (Arctia)
naidella Strand, 1919 (Apantesis)
pulcherrima (Stretch, 1906) (Arctia)
rhoda (Butler, 1881) (Arctia)
rhodana Strand, 1919 (Apantesis)
vittatula Strand, 1919 (Apantesis)
93 0279 A. vittata (Fabricius, 1787) (Bombyx) 8170
ssp. a. vittata (Fabricius, 1787) (Bombyx)
colorata (Walker, 1865) (Aloa)
ochracea Cassino, 1918 (Apantesis)
radians Walker, 1855 (Apantesis)
subterminalis Strand, 1919 (Apantesis)
ssp. b. floridana Cassino, 1918 (Apantesis)
93 0280 A. nais (Drury, 1773) (Phalaena) 8171
cuneata (Goeze, 1781) (Phalaena)
decorata (Saunders, 1863) (Arctia)
ochreata (Butler, 1881) (Arctia)
phaleratula Strand, 1919 (Apantesis)
93 0281 A. carlotta Ferguson, 1985 (Apantesis) [NEW]

Genus SONORARCTIA Ferguson, 1985
ID INFO: Ferguson (1985b).

93 0282 S. fervida (Walker, 1855) (Arctia) [NEW]
commixta (Butler, 1877) (Heraclea)
rodriguezi (Druce, 1890) (Arctia)

Genus ARCTIA Schrank, 1802
ID INFO (partial): Sotavalta (1965), Dubatolov & Philip (2013).
NOTE: The genera *Parasemia*, *Acerbia*, *Pararctia*, *Platarctia*, and *Platyprepia* were synonymized under *Arctia* by Rönkä et al. (2016).
ACERBIA Sotavalta, 1963
AMMOBIOTA Wallengren, 1855
ATLANTARCTIA Dubatolov, 1990
BOREARCTIA Dubatolov, 1984
CALLARCTIA Packard, 1864
CHIONOPHILA Guenée, 1865
EPICALLIA Hübner, [1820]
EUCHARIA Hübner, [1820]
EUPSYCHOMA Grote, 1865
EYPREPIA Ochsenheimer, 1810
GONERDA Moore, 1879
HYPHORAIA Hübner, [1820]
NEMEOPHILA Stephens, [1828]
ORONCUS Seitz, 1910
PARARCTIA Sotavalta, 1965
PARASEMIA Hübner, 1820
PERICALLIA Hübner, [1820]
PLATARCTIA Packard, 1864
PLATYPREPIA Dyar, 1897
PREPARCTIA Hampson, 1901
SINOARCTIA Dubatolov, 1987
ZOOTE Hübner, [1820]

93 0283 A. plantaginis (Linnaeus, 1758) (Phalaena) 8127
ssp. a. plantaginis (Linnaeus, 1758) (Phalaena)
alascensis (Stretch, 1906) (Nemeophila)
alpicola (Scopoli, 1763) (Phalaena)
caespitis (Grote & Robinson, 1868) (Nemeophila)
cichorii (Grote & Robinson, 1868) (Nemeophila)
geddesi (Neumoegen, 1883) (Nemeophila)
geometrica (Grote, 1865) (Eupsychoma)
hospita ([Denis & Schiffermüller], 1775) (Bombyx)
japonica (Inoue & Kobayashi, 1956) (Parasemia)
jezoensis (Inoue, 1976) (Parasemia)
leucomera (Butler, 1881) (Nemeophila)
macromera (Butler, 1881) (Nemeophila)
matronalis (Freyer, 1843) (Bombyx)
melanissima (Inoue, 1976) (Parasemia)
melanomera (Butler, 1881) (Nemeophila)
modesta (Packard, 1864) (Platarctia)
nicticans (Ménétriés, 1859) (Lithosia)
scudderii (Packard, 1864) (Platarctia)
selwynii (Edwards, 1885) (Nemeophila)
sifanica (Grum-Grschmaïlo, 1891) (Nemeophila)
stoetzneri (Bang-Haas, 1927) (Parasemia)
syfanica (Grum-Grschmaïlo, 1891) (Nemeophila)
ssp. b. petrosa (Walker, 1855) (Nemeophila)
93 0284 A. alpina (Quensel, 1802) (Bombyx) H 8164
ssp. a. alpina (Quensel, 1802) (Bombyx)
sibirica (Bang-Haas, 1927) (Hyphoraia)
thulea Dalman, 1823 (Arctia)
ssp. b. johanseni (Bang-Haas, 1927) (Hyphoraia)

93 0285 A. lapponica (Thunberg, 1791) (Bombyx) extralim. H 8165
ssp. a. hyperborea (Curtis, 1835) (Euprepia)
ssp. b. gibsoni (Bang-Haas, 1927) (Hyphoraia)
lemniscata Stichel, 1911 (Arctia)

93 0286 A. yarrowii Stretch, 1873 (Arctia) [NEW]
NOTE: Raised from subspecies of *A. lapponica* by Lafontaine & Wood (1997).
remissa Edwards, 1888 (Arctia)

93 0287 A. subnebulosa (Dyar, 1899) (Hyphoraia) 8165.1

93 0288 A. parthenos Harris, 1850 (Arctia) 8162
borealis Möschler, 1860 (Arctia)
multimaculata (Brower, 1973) (Hyphoraia)
obsolescens (Brower, 1973) (Hyphoraia)
parvimaculata (Brower, 1973) (Hyphoraia)

93 0289 A. virginalis (Boisduval, 1852) (Chelonia) 8163
guttata (Boisduval, 1852) (Agarista)
ochracea (Stretch, 1872) (Euprepia)

93 0290 A. caja (Linnaeus, 1758) (Phalaena) extralim. H 8166
wiskotti Staudinger, 1878 (Arctia) (excl.)
ssp. a. americana Harris, 1841 (Arctia)
ssp. b. utahensis (Edwards, 1886) (Euprepia)
transmontana (Neumoegen & Dyar, 1893) (Hypercompa)
ssp. c. waroi Barnes & Benjamin, 1927 (Arctia)

93 0291 A. opulenta (Edwards, 1881) (Euprepia) [NEW]
parva Rothschild, 1910 (Arctia)
virginivir Dyar, 1923 (Arctia)

93 0292 A. brachyptera Troubridge & Lafontaine, 2000 (Arctia) [NEW]

93 0293 A. olschwangi Dubatolov, 1990 (Arctia) H [NEW]
NOTE: Added to the NA fauna by Lafontaine & Schmidt (2010), based on material in the AK Lepidoptera Survey collection.

Subtribe SPILOSOMINA Seitz, 1910

Genus SEIRARCTIA Packard, 1864

93 0308 S. echo (Smith, 1797) (Phalaena) 8130
niobe (Strecker, 1885) (Spilosoma)

Genus SPILOSOMA Curtis, 1825
ELPIS Dyar, 1892
RHAGONIS Walker, 1862
SPILARCTIA Butler, 1875

93 0309 S. congrua Walker, 1855 (Spilosoma) 8134
antigone Strecker, 1878 (Spilosoma)
athena Strecker, 1899 (Spilosoma)

93 0310 S. dubia (Walker, 1855) (Cycnia) 8136
prima Slosson, 1889 (Spilosoma)

93 0311 S. latipennis Stretch, 1872 (Spilosoma) 8133

93 0312 S. vestalis Packard, 1864 (Spilosoma) 8135
amelaina Dyar, 1893 (Spilosoma)
echo (Rothschild, 1910) (Diacrisia) (in part)

93 0313 S. vagans (Boisduval, 1852) (Arctia) 8138
ssp. a. vagans (Boisduval, 1852) (Arctia)
bicolor (Walker, 1862) (Rhagonis)
proba (Edwards, 1881) (Antarctia)
punctata (Packard, 1864) (Antarctia)
rufula (Boisduval, 1855) (Nemeophila)
walsinghami (Butler, 1881) (Antarctia)
ssp. b. kasloa (Dyar, 1904) (Diacrisia)

93 0314 S. pteridis Edwards, 1874 (Spilosoma) 8139
danbyi (Neumoegen & Dyar, 1893) (Elpis)
rubra (Neumoegen, 1881) (Antarctia)

93 0316 S. virginica (Fabricius, 1798) (Bombyx) 8137
fumosa Strecker, 1900 (Spilosoma)

Genus ESTIGMENE Hübner, 1820
LEUCARCTIA Packard, 1864

93 0317 E. acrea (Drury, 1773) (Phalaena) 8131
californica (Packard, 1864) (Leucarctia)
caprotina (Drury, 1773) (Phalaena)
columbiana Rothschild, 1910 (Estigmene)
echo (Rothschild, 1910) (Diacrisia) (in part)
klagesii (Ehrmann, 1894) (Leucarctia)
mexicana (Walker, 1865) (Spilosoma)
packardii (Schaupp, 1882) (Leucarctia)
pseuderminea (Harris, 1823) (Arctia)
ricksecker i (Behr, 1893) (Leucarctia)

93 0318 E. albida (Stretch, 1873) (Leucarctia) 8132
arizonensis Rothschild, 1910 (Estigmene)

Genus HYPHANTRIA Harris, 1841

93 0319 H. cunea (Drury, 1773) (Sphinx) 8140
brunnea Strecker, 1900 (Hyphantria)
budea (Hübner, 1823) (Cycnia)
candida (Walker, 1865) (Spilosoma)
liturata (Goeze, 1781) (Phalaena)
mutans (Walker, 1856) (Spilosoma)
pallida (Packard, 1864) (Arctia)
pictipupa Fitch, 1857 (Hyphantria)
punctata Fitch, 1857 (Hyphantria)
punctatissima (Smith, 1797) (Phalaena)
suffusa Strecker, 1900 (Hyphantria)
textor Harris, 1828 (Hyphantria)

Genus ALEXICLES Grote, 1883

93 0320 A. aspersa Grote, 1883 (Alexicles) 8143

Genus HYPERCOMPE Hübner, [1819]
CATENINA Burmeister, 1883
ECPANTHERIA Hübner, [1820]
TURUPTIANA Walker, 1869

93 0321 H. permaculata (Packard, 1872) (Leucarctia) 8144
caeca (Strecker, 1884) (Ecpantheria)
reducta (Grote, 1877) (Ecpantheria)

93 0322 H. extrema of authors; (not Walker, 1855) (Ecpantheria) MISAPPL. 8145
NOTE: Listed as *H. extrema* by Franclemont (in Hodges et al. 1983), but revised to an undescribed species near *extrema* by Lafontaine & Schmidt (2010).

93 0323 H. scribonia (Stoll, 1790) (Phalaena) 8146
chryseis (Olivier, 1790) (Bombyx)
confluens (Oberthür, 1881) (Ecpantheria)
deflorata of authors; (not Fabricius, 1775) (Bombyx) misappl.
NOTE: The listing of "*Ecpantheria deflorata* Fab." in NA (MI) by Moore (1955) was determined by GRP to most likely refer to *H. scribonia*.
denudata (Slosson, 1888) (Ecpantheria)

93 0324 H. caudata (Walker, 1855) (Ecpantheria) [NEW]
NOTE: Ferguson & Opler (2006) corrected the identity of NA populations previously reported as *H. muzina*.
abscondens (Oberthür, 1881) (Ecpantheria)
albicollis (Oberthür, 1881) (Ecpantheria)
depauperata (Oberthür, 1881) (Ecpantheria)
mexicana (Oberthür, 1881) (Ecpantheria)
muzina of authors; (not Oberthür, 1881) (Ecpantheria) misappl. *[8147]*
sennettii (Lintner, 1884) (Ecpantheria)
yukatanensis (Oberthür, 1881) (Ecpantheria)

93 0325 H. suffusa (Schaus, 1889) (Arachnis) 8149
semiclara (Stretch, 1906) (Arachnis)

93 0326 H. oslari (Rothschild, 1910) (Ecpantheria) 8148

Genus ARACHNIS Geyer, 1837

93 0327 A. picta Packard, 1864 (Arachnis) 8152
ssp. a. picta Packard, 1864 (Arachnis)
ssp. b. insularis Clarke, 1941 (Arachnis)
hampsoni Dyar, 1902 (Arachnis)
ssp. c. meadowsi Comstock, 1942 (Arachnis)
ssp. d. maia Ottolengui, 1896 (Arachnis)
ssp. e. perotensis Schaus, 1889 (Arachnis) (excl.)
NOTE: This extralimital (Mexican) subspecies was reported by Poole & Gentili (1996) as a valid NA species.

93 0328 A. nedyma Franclemont, 1966 (Arachnis) 8151

93 0329 A. citra Neumoegen & Dyar, 1893 (Arachnis) [NEW]
ssp. a. citra Neumoegen & Dyar, 1894 (Arachnis)
apachea Clarke, 1941 (Arachnis) *[8153]*
ssp. b. verna Barnes & McDunnough, 1918 (Arachnis)
midas Barnes & Lindsey, 1921 (Arachnis) *[8154]*

93 0330 A. aulaea Geyer, 1837 (Arachnis) extralim. 8155
ssp. a. pompeia Druce, 1894 (Arachnis)

93 0331 A. zuni Neumoegen, 1890 (Arachnis) 8150

Genus PHRAGMATOBIA Stephens, [1828]
ID INFO: Donahue & Newman (1966).

93 0332 P. fuliginosa (Linnaeus, 1758) (Phalaena) extralim. H 8156
ssp. a. rubricosa (Harris, 1841) (Arctia)
dallii Packard, 1870 (Phragmatobia)

93 0333 P. lineata Newman & Donahue, 1966 (Phragmatobia) 8157

93 0334 P. assimilans Walker, 1855 (Phragmatobia) 8158
franconia Slosson, 1891 (Phragmatobia)

Genus PYRRHARCTIA Packard, 1864

93 0335 P. isabella (Smith, 1797) (Phalaena) 8129
californica Packard, 1864 (Pyrrharctia)

Genus LEPTARCTIA Stretch, 1872

93 0336 L. californiae (Walker, 1855) (Nemeophila) 8126
adnata (Boisduval, 1869) (Lithosia)
albifascia French, 1889 (Leptarctia)
boisduvalii Butler, 1881 (Leptarctia)
californica (Boisduval, 1869) ([unknown])
decia (Boisduval, 1869) (Lithosia)
dimidiata Stretch, 1872 (Leptarctia)
fulvofasciata Butler, 1881 (Leptarctia)
latifasciata Butler, 1881 (Leptarctia)
lena (Boisduval, 1869) (Lithosia)
melanis (Boisduval, 1869) ([unknown])
occidentalis French, 1889 (Leptarctia)
stretchii Butler, 1881 (Leptarctia)
wrightii French, 1889 (Leptarctia)

Genus VIRBIA Walker, 1854
ID INFO: Zaspel et al. (2008).
COTHOCIDA Walker, 1865
CYTORUS Grote, 1865
HOLOMELINA Herrich-Schäffer, 1856

93 0336.51 V. laeta (Guérin-Méneville, [1832]) (Lithosia) 8114
rubropicta (Packard, 1887) (Lithosia)
treatii (Grote, 1865) (Crocota)

93 0336.52 V. costata (Stretch, 1885) (Crocota) 8115
coccinicepS (Schaus, 1901) (Holomelina)
intermedia (Graef, 1887) (Crocota)
opelloides (Graef, 1887) (Crocota)
pallipennis (Barnes & McDunnough, 1918) (Eubaphe)
parvula (Neumoegen & Dyar, 1893) (Crocota)

93 0336.53E V. cetes (Druce, 1897) (Brycea) EXCL. 8117
NOTE: This record has not been substantiated and it was excluded from the NA fauna by Schmidt & Opler (2008).

93 0336.54 V. ostenta (Edwards, 1881) (Crocota) 8116
calera (Barnes, 1907) (Holomelina)

93 0336.55 V. opella (Grote, 1863) (Crocota) 8118
belmaria (Ehrmann, 1895) (Crocota)
flava (Barnes & Benjamin, 1925) (Eubaphe)
obscura (Stretch, 1885) (Crocata)
rubricosta (Ehrmann, 1895) (Crocota)

93 0336.56 V. fergusoni Zaspel, 2008 (Virbia) [NEW]

93 0336.57 V. aurantiaca (Hübner, [1831]) (Eubaphe) 8121
bimaculata (Saunders, 1869) (Arctia)

93 0336.58 V. marginata of Schmidt et al., 2018; (not Druce, 1885) (Eubaphe) MISAPPL. [NEW]
NOTE: This unnamed species refers to TX populations previously attributed to *V. marginata* by Schmidt et al. (2018). The Neotropical taxon *V. marginata*, described from the highlands of Guatemala, was raised from synonymy with *V. rubicundaria* by Ferguson & Opler (2006), based on uncertain identification of USA specimens of unspecified provenance. Possibly, Ferguson believed the name to apply to a species found in the White Mountains of AZ, to which it is most similar. However, due to the uncertain application of this name to any NA species, *V. marginata* was not included as part of the NA fauna by Schmidt & Opler (2008). Zaspel et al. (2008) subsequently applied the name to the AZ-NM species, but Lafontaine & Schmidt (2010) disagreed and listed that taxon as "*Virbia near marginata*". More recently, the name *marginata* was applied to the *aurantiaca*-group populations of south TX (Schmidt et al. 2018), but further study has shown that this is also wrong (BCS, in prep.) and that both NA taxa that the name *marginata* has been applied to are likely undescribed species. "True" *V. marginata* does not occur in NA. See also *V. marginata* of Zaspel et al., 2008, P-no. 930336.62.

93 0336.59 V. rubicundaria (Hübner, [1831]) (Crocota) 8122
belfragei (Stretch, 1885) (Crocata)
brevicornis (Walker, 1854) (Crocota)
diminutiva (Graef, 1887) (Crocota)
rosa (French, 1890) (Crocota)

93 0336.6 V. fragilis (Strecker, 1878) (Crocota) 8125

93 0336.61 V. lamae (Freeman, 1941) (Eubaphe) 8120

93 0336.62 V. marginata of Zaspel et al., 2008; (not Druce, 1885) (Eubaphe) MISAPPL. [NEW]
NOTE: This unnamed species refers to AZ/NM populations previously attributed to *V. marginata* by Zaspel et al. (2008). It was treated by Lafontaine & Schmidt (2010) as "*Virbia* species near *marginata*". "True" *V. marginata* does not occur in NA. See also *V. marginata* of Schmidt et al., 2018, P-no. 930336.58.

93 0336.63 V. nigricans (Reakirt, 1864) (Crocota) 8119
nigrifera (Walker, 1865) (Cothocida)

93 0336.64 V. rindgei Cardé, 2008 (Virbia) [NEW]

93 0336.65 V. ferruginosa (Walker, 1854) (Crocota) 8123
buchholzi (Wyatt, 1963) (Holomelina)
choriona (Reakirt, 1864) (Crocota)
quinaria (Grote, 1863) (Crocota)
trimaculosa (Reakirt, 1864) (Crocota)

93 0336.66 V. immaculata (Reakirt, 1864) (Crocota) 8124

Subtribe CALLIMORPHINA Walker, [1865]

Genus DODIA Dyar, 1901
ID INFO: Schmidt & Macaulay (2009).
HYALOCOA Hampson, 1901

93 0337 D. albertae Dyar, 1901 (Dodia) H 8128
atra (Bang-Haas, 1912) (Hypocrita)
eudiopta Tshistjakov, 1988 (Dodia)
kozhantshikovi (Sheljuzhko, 1918) (Hyperborea)

93 0338 D. tarandus Macaulay & Schmidt, 2009 (Dodia) [NEW]

93 0339 D. kononenkoi Tshistjakov & Lafontaine, 1984 (Dodia) H [NEW]

93 0340 D. verticalis Lafontaine & Troubridge, 2000 (Dodia) [NEW]

Genus HAPLOA Hübner, 1820

93 0341 H. clymene (Brown, 1776) (Phalaena) 8107
comma (Walker, 1855) (Hypercompa)
interruptomarginata (Beauvois, 1821) (Bombyx)

93 0342 H. colona (Hübner, [1803]) (Bombyx) 8108
carolina (Harris, 1841) (Callimorpha)
clymene (Esper, 1794) (Phalaena)
conscita (Walker, 1865) (Tanada)
consita; Dyar, 1902 (Haploa) missp.
duplicata Neumoegen & Dyar, 1893 (Haploa)
fulvicosta (Clemens, 1860) (Hypercompa)
lactata (Smith, 1887) (Callimorpha)

93 0343 H. reversa (Stretch, 1885) (Callimorpha) 8109
suffusa (Smith, 1888) (Callimorpha)

93 0344 H. contigua (Walker, 1855) (Hypercompa) 8110
lumbonigera Dyar, 1902 (Haploa)

93 0345 H. lecontei (Guérin-Méneville, 1832) (Callimorpha) 8111
albanchlora (Grote, 1888) (Callimorpha)
confinis (Walker, 1855) (Hypercompa)
dyarii Merrick, 1903 (Haploa)
harrisii Dyar, 1902 (Haploa)
leucomelas (Herrich-Schäffer, 1855) (Callimorpha)
militaris (Harris, 1841) (Callimorpha)
ochroleuca Strand, 1919 (Haploa)
smithii Dyar, 1902 (Haploa)
suffusca Franclemont, 1938 (Haploa)
vestalis (Packard, 1864) (Callimorpha)

93 0346 H. confusa (Lyman, 1887) (Callimorpha) 8112
lymani Dyar, 1902 (Haploa)
triangularis Smith, 1899 (Haploa)

Genus TYRIA Hübner, 1819
EUCHELIA Boisduval, 1828
HIPOCRITA Hübner, 1806

93 0347 T. jacobaeae (Linnaeus, 1758) (Phalaena) I 8113
NOTE: This European species was released in Canada to NS (1964), BC (1965), NB (1970), and ON (1970) for biocontrol of Tansy Ragwort (*Senecio jacobaea* L.; Asteraceae) (Kelleher & Hulme 1984). It did not become established in ON, but established at the other release sites and it has spread to adjacent areas since.
jacobeae; [various, no date] (Tyria) missp.
senecionis (Godart, 1823) (Callimorpha)
senecionis (Latreille, 1809) ([unknown])

Genus UTETHEISA Hübner, 1819
NOTE: Although traditionally placed in Callimorphina, this genus is of uncertain subtribal affinity (Dowdy et al. 2020 and references therein).
DEIOPEIA Curtis, 1827
UTETHESIA; Moore, 1859 missp.

93 0348 U. ornatrix (Linnaeus, 1758) (Phalaena) 8105
bella (Linnaeus, 1758) (Phalaena) *[8106]*
butleri Dyar, 1914 (Utetheisa)
daphoena Dyar, 1914 (Utetheisa)
grossbecki Strand, 1919 (Utetheisa)
hybrida (Butler, 1877) (Deiopeia)
intermedia (Butler, 1877) (Deiopeia)
nova Smith, 1910 (Utetheisa)
pura (Butler, 1877) (Deiopeia)
speciosa (Walker, 1854) (Deiopeia)
stretchii (Butler, 1877) (Deiopeia)
terminalis Neumoegen & Dyar, 1893 (Utetheisa)
venusta (Dalman, 1823) (Euprepia)

93 0348.1E U. pulchelloides Hampson, 1907 (Utetheisa) EXCL. [NEW]
NOTE: The synonym *idae* was listed in error by Forbes (1954). It was described from Swain's Island, which Forbes attributed to NL. It is in fact from another Swains Island in the Indian Ocean.
idae Clarke, 1940 (Utetheisa) (excl.)

Subtribe PERICOPINA Walker, [1865]

Genus COMPOSIA Hübner, 1820
COCASTRA Boisduval, 1870

93 0349 C. fidelissima Herrich-Schäffer, 1866 (Composia) extralim. 8038
ssp. a. vagrans Bates, 1934 (Composia)

Genus HYPOCRITA Hübner, [1807]
CALEPIDOS Boisduval, 1870
ESTHEMA Hübner, [1820]
EUCYANE Hübner, [1820]
HYPOPCRITA; Schmidt & Opler, 2009 missp.

93 0350.1 H. celina (Boisduval, 1870) (Calepidos) [NEW]
NOTE: Reported from FL by Habeck (2007) as *H. escuintla*, a synonym.
escuintla (Schaus, 1920) (Eucyane)

Genus PHALOESIA Walker, 1854

93 0351 P. saucia Walker, 1854 (Phaloesia) 8039
chalybea Butler, 1876 (Phaloesia)
fulvicollis Butler, 1875 (Phaloesia)
gentilis (Boisduval, 1870) (Cocastra)
venezuelae Butler, 1876 (Phaloesia)

Genus GNOPHAELA Walker, 1854
CALLALUCIA Grote, 1865
LAMPROSOMA Grote, [1864]
OMOIALA Grote, [1864]

93 0352 G. clappiana Holland, 1891 (Gnophaela) 8033
ruidosensis Cockerell, 1903 (Gnophaela)
93 0353 G. latipennis (Boisduval, 1852) (Glaucopis) 8034
hopfferi Grote & Robinson, 1868 (Gnophaela)
93 0354 G. aequinoctialis (Walker, 1854) (Dioptis) 8035
disjuncta Edwards, 1885 (Gnophaela)
93 0355 G. discreta Stretch, 1875 (Gnophaela) 8036
arizona French, 1884 (Gnophaela)
morrisoni Druce, 1885 (Gnophaela)
93 0356 G. vermiculata (Grote, 1864) (Omoiala) 8037
continua Edwards, 1881 (Gnophaela)

Genus XENOSOMA Felder, 1874
ADDUA Walker, 1862
AMBRYLLIS Walker, 1855
APHISAON Boisduval, 1870
DARITIS Walker, 1855
DORIMENA Boisduval, 1870
HYELOSIA Hübner, 1818
PERICOPIS Hübner, [1819]
TAXILA Walker, 1855
THEBRONE Boisduval, 1870

93 0356.5 X. flaviceps (Walker, 1865) (Eloria) STRAY [NEW]
nigricosta Felder, 1874 (Xenosoma)

Genus DYSSCHEMA Hübner, 1818

93 0357 D. leucophaea (Walker, 1854) (Theages) STRAY [NEW]
flora (Butler, 1874) (Pericopis)
rubrimargo (Boisduval, 1870) (Thebrone)
salvatoris (Boisduval, 1870) (Aphisaon)
93 0358 D. howardi (Edwards, 1886) (Daritis) 8040
NOTE: Synonymized by Becker (2013) but reinstated as a valid species by Lafontaine & Schmidt (2015).

Subtribe PHAEGOPTERINA Kirby, 1892

NOTE: The subtribe Phaegopterina as currently defined is not monophyletic (Dowdy et al. 2020; Zenker et al. 2017), but is retained here pending systematic revision.

Genus HYPOCRISIAS Hampson, 1901

93 0359 H. minima (Neumoegen, 1883) (Halesidota) 8201
agelia (Druce, 1890) (Euhalisidota)
armillata (Edwards, 1884) (Halisidota)

Genus HALYSIDOTA Hübner, 1819

93 0360 H. tessellaris (Smith, 1797) (Phalaena) 8203
antiphola (Walsh, 1864) (Halesidota)
antipholella (Strand, 1919) (Halisidota)
oslari (Rothschild, 1909) (Halisidota)
tesselaroides (Strand, 1919) (Halesidota)
93 0361 H. harrisii (Walsh, 1864) (Halisidota) 8204
tessellaris Harris, 1841 (Halysidota)
93 0362 H. davisii (Edwards, 1874) (Halesidota) 8205
93 0363 H. schausi (Rothschild, 1909) (Halisidota) 8205.1
mexiconis (Strand, 1919) (Halesidota)
occidentalis (Rothschild, 1922) (Halisidota)
pallida (Rothschild, 1909) (Halisidota)

93 0363.1E H. underwoodi Rothschild, 1909 (Halysidota) EXCL. 8205.2
NOTE: Reported from USA by Watson (1980). No verifiable records could be found by Ferguson & Opler (2006) and they excluded it from the NA fauna.

93 0363.2E H. fuliginosa Rothschild, 1909 (Halysidota) EXCL. 8205.3
NOTE: No verifiable NA records could be found by Ferguson & Opler (2006); it was excluded from the NA fauna by Lafontaine & Schmidt (2010).
93 0364 H. cinctipes (Grote, 1865) (Halisidota) 8202

Genus LOPHOCAMPA Harris, 1841
EUHALISIDOTA Grote, 1865
EUSCHAUSIA Dyar, 1898
LEPIDONEWTONIA Rego-Barros, 1956
SCHAUSIA Dyar, 1897
SYNARCTIA Hampson, 1901
THALESA Schaus, 1896

93 0365 L. roseata (Walker, 1866) (Halisidota) 8206
ssp. a. roseata (Walker, 1866) (Halisidota)
cinnamomea (Boisduval, 1869) (Phoegoptera)
sanguivenosa (Neumoegen, 1892) (Halesidota)
ssp. b. occidentalis (French, 1890) (Halisidota)
93 0366 L. significans (Edwards, 1888) (Halisidota) 8207
93 0367 L. ingens (Edwards, 1881) (Halesidota) 8208
scapularis (Stretch, 1885) (Halesidota)
93 0368 L. argentata (Packard, 1864) (Halesidota) 8209
ssp. a. argentata (Packard, 1864) (Halesidota)
ssp. b. subalpina (French, 1890) (Halisidota)
93 0369 L. sobrina (Stretch, 1872) (Halesidota) 8210
93 0370 L. caryae Harris, 1841 (Lophocampa) 8211
annulifascia (Walker, 1855) (Halesidota)
porphyrea (Herrich-Schäffer, 1855) (Phegoptera)
93 0370.1 L. bicolor (Walker, 1855) (Halesidota) [NEW]
93 0371 L. mixta (Neumoegen, 1882) (Halesidota) 8212
pseudocarye (Rothschild, 1909) (Halisidota)
93 0372 L. pura (Neumoegen, 1882) (Euhalisidota) 8213
flavescens (Rothschild, 1909) (Halisidota)
93 0373 L. maculata Harris, 1841 (Lophocampa) 8214
ssp. a. maculata Harris, 1841 (Lophocampa)
fulvoflava (Walker, 1855) (Halesidota)
guttifera (Herrich-Schäffer, 1855) (Phegoptera)
ssp. b. agassizii (Packard, 1864) (Halesidota)

alni (Edwards, 1877) (Halesidota)
angulifera (Walker, 1866) (Halesidota)
californica (Walker, 1865) (Halesidota)
eureka (Dyar, 1904) (Halisidota)
salicis (Boisduval, 1869) (Phoegoptera)
ssp. c. texana (Rothschild, 1909) (Halisidota)

93 0374 L. indistincta (Barnes & McDunnough, 1910) (Halisidota) 8215

93 0375 L. annulosa (Walker, 1855) (Halesidota) 8216
niveigutta (Walker, 1856) (Halesidota)

Genus LEUCANOPSIS Barros, 1956

93 0376 L. longa (Grote, 1880) (Euhalisidota) 8217
93 0377 L. perdentata (Schaus, 1901) (Halisidota) 8217.1
93 0378 L. lurida (Edwards, 1887) (Euhalisidota) 8217.2
otho (Barnes, 1901) (Euhalisidota)

Genus APOCRISIAS Franclemont, 1966
ID INFO: Franclemont (1966a).

93 0379 A. thaumasta Franclemont, 1966 (Apocrisias) 8219

Genus PSEUDOHEMIHYALEA Rego-Barros, 1956
ID INFO: Schmidt (2009a).
AEMELES Walker, 1855
AEMILIA Kirby, 1892
HEMIHYALEA Hampson, 1901

93 0380 P. ambigua (Strecker, 1878) (Halesidota) 8218
bolteri (Edwards, 1884) (Seirarctia)
93 0381 P. edwardsii (Packard, 1864) (Halesidota) 8222
argillacea (Rothschild, 1909) (Hemihyalea)
ochreous (Meadows, 1939) (Hemihyalea)
quercus (Boisduval, 1869) (Phoegoptera)
translucida (Walker, 1865) (Halesidota)
93 0382 P. labecula (Grote, 1881) (Halesidota) 8221
ssp. a. labecula (Grote, 1881) (Halesidota)
ssp. b. griseiventris (Rothschild, 1935) (Hemihyalea)
93 0383 P. splendens (Barnes & McDunnough, 1910) (Hemihyalea) 8220
93 0383.1E P. mansueta (Edwards, 1884) (Halisidota) EXCL. 8223
NOTE: No verifiable NA records could be found by Schmidt & Opler (2008) and it was excluded from the NA fauna.

Genus CALIDOTA Dyar, 1901

93 0384 C. laqueata (Edwards, 1886) (Halisidota) 8224

Genus OPHARUS Walker, 1855

93 0385 O. muricolor (Dyar, 1898) (Pygarctia) 8225

Genus CARALES Walker, 1855
SENIA Möschler, 1878

93 0386 C. arizonensis (Rothschild, 1909) (Opharus) 8226
fumata (Barnes & McDunnough, 1910) (Opharus)

Genus PAREUCHAETES Grote, 1900

93 0387 P. insulata (Walker, 1855) (Halesidota) 8227
affinis Grote, 1866 (Pareuchaetes)
cadaverosa Grote, 1866 (Pareuchaetes)

Genus LERINA Walker, 1854

93 0388 L. incarnata Walker, 1854 (Lerina) 8246
robinsonii (Boisduval, 1869) (Ctenucha)

Genus EUPSEUDOSOMA Grote, 1865

93 0389 E. involuta (Sepp, [1855]) (Phalaena) extralim. 8257
ssp. a. floridum Grote, 1882 (Eupseudosoma)
immaculata (Graef, 1887) (Euchaetes)

Genus BERTHOLDIA Schaus, 1896

93 0390 B. trigona (Grote, 1879) (Halesidota) 8258
93 0391 B. albipuncta of authors; not Schaus, 1896 (Bertholdia) MISAPPL. [NEW]
NOTE: NA populations are an undescribed species near *B. albipuncta* (Lafontaine & Schmidt 2010).

Genus NERITOS Walker, 1855 (excl.)

93 0392E N. prophaea Schaus, 1905 (Neritos) EXCL. 8259
NOTE: Removed from the NA list by Lafontaine & Schmidt (2015), as no NA records could be located.

Genus AGARAEA Herrich-Schäffer, [1855]
AGAREA; Schaus, 1892 missp.

93 0393 A. semivitrea Rothschild, 1909 (Agorea [sic]) [NEW]

Genus PURIUS Walker, 1855
SPODARCTIA Dyar, 1925

93 0394 P. superpulverea (Dyar, 1925) (Spodarctia) [NEW]

Genus BITURIX Walker, 1855

93 0395 B. venosata Walker, [1865] (Biturix) [NEW]

Genus PAGARA Walker, 1856
COMACLA Walker, [1865]
VANESSODES Grote & Robinson, 1870

93 0396 P. simplex Walker, 1856 (Pagara) 8099
clarus (Grote & Robinson, 1870) (Vanessodes)
murina (Walker, 1865) (Comacla)
texana (French, 1889) (Ameria)

Genus TROCODIMA Watson, 1980
MICRODOTA Dognin, 1906

93 0397 T. fuscipes (Grote, 1883) (Comacla) 8100
hemiceras (Forbes, 1931) (Microdota)

Genus EUERYTHRA Harvey, 1876

93 0398 E. phasma Harvey, 1876 (Euerythra) 8141
93 0399 E. trimaculata Smith, 1887 (Euerythra) 8142

Genus NEOPLYNES Hampson, 1900

93 0400 N. eudora (Dyar, 1894) (Pagara) 8101

Genus CYCNIA Hübner, 1818
TANADA Walker, 1856

93 0402 C. collaris (Fitch, 1857) (Hyphantria) [NEW]
inopinatus (Edwards, 1882) (Euchetes) *[8228]*
nivalis (Stretch, 1906) (Euchaetes)
pudens (Edwards, 1882) (Euchaetes) *[8229]*
tenerosa (Dyar, 1913) (Ammalo)
93 0404 C. tenera Hübner, 1818 (Cycnia) 8230
antica (Walker, 1856) (Tanada)
sciurus (Boisduval, 1869) (Arctia)
yosemite (Edwards, 1884) (Euchaetes)
93 0405 C. oregonensis (Stretch, [1874]) (Euchaetes) 8231
ssp. a. oregonensis (Stretch, [1874]) (Euchaetes)
ssp. b. tristis Crabo, 2013 (Cycnia)

Genus EUCHAETES Harris, 1841
ID INFO (partial): Nagle & Schmidt (2018).
EUCHAETIAS Lyman, 1902
PROTAMOLIS Hampson, 1901
STENOPHAEA Hampson, 1901

93 0406 E. zella (Dyar, 1902) (Calidota) 8232
93 0407 E. perlevis Grote, 1882 (Euchaetes) 8233
93 0408 E. fusca (Rothschild, 1910) (Pygarctia) 8234
93 0409 E. helena (Cassino, 1928) (Euchaetias) 8235
93 0409.1 E. nancyae Nagle & Schmidt, 2018 (Euchaetes) [NEW]
93 0410 E. castalla (Barnes & McDunnough, 1910) (Euchaetias) 8236
griseopunctata (Barnes & McDunnough, 1910) (Euchaetias)
93 0411 E. elegans Stretch, 1874 (Euchaetes) 8237
93 0412 E. egle (Drury, 1773) (Phalaena) 8238
cyclica Edwards, 1884 (Euchaetes)
93 0413 E. gigantea (Barnes & McDunnough, 1910) (Euchaetias) 8239
93 0414 E. polingi (Cassino, 1928) (Euchaetias) 8240
93 0415 E. bolteri Stretch, 1885 (Euchaetes) 8241
scepsiformis Graef, 1887 (Euchaetes)

930416 E. antica (Walker, 1856) (Halesidota) 8242
parazona (Dyar, 1912) (Euchaetias)
pollinia (Boisduval, 1870) (Ctenucha)
salatis (Boisduval, 1870) (Ctenucha)
sinaloensis (Dyar, 1921) (Euchaetias)
zonalis Grote, 1882 (Euchaetes)
930417 E. albicosta (Walker, 1855) (Phragmatobia) 8243
fumidus Edwards, 1884 (Euchaetes)
930417.1E E. cressida Dyar, 1913 (Euchaetes) EXCL. [NEW]
NOTE: Listed by Poole & Gentili (1996) as a valid NA species, but no verified Nearctic records are known.

Genus PYGOCTENUCHA Grote, 1883
PROTOSIA Hampson, 1900

930418 P. terminalis (Walker, 1854) (Apistosia) 8244
harrisii (Boisduval, 1869) (Ctenucha)
votiva (Edwards, 1884) (Ctenucha)
930419 P. pyrrhoura (Hulst, 1881) (Ctenucha) 8245

Genus ECTYPIA Clemens, 1861
EUVERNA Neumoegen & Dyar, 1893

930420 E. bivittata Clemens, 1860 (Ectypia) 8247
nigroflava (Graef, 1887) (Spilosoma)
930421 E. mexicana (Dognin, 1911) (Euverna) 8248
930422 E. clio (Packard, 1864) (Seirarctia) 8249
ssp. a. clio (Packard, 1864) (Seirarctia)
thona (Strecker, 1899) (Spilosoma)
ssp. b. jessica (Barnes, 1900) (Seirarctia)

Genus PYGARCTIA Grote, 1871

930423 P. murina (Stretch, 1885) (Euchaetes) 8250
oslari Rothschild, 1910 (Pygarctia)
poliochroa Hampson, 1916 (Pygarctia)
930424 P. pterygostigma Dyar, 1909 (Pygarctia) [NEW]
NOTE: Raised from synonymy under *P. murina* by Ferguson & Opler (2006).
albistrigata Barnes & McDunnough, 1913 (Pygarctia)
930425 P. neomexicana Barnes, 1904 (Pygarctia) 8251
930426 P. lorula Dyar, 1914 (Pygarctia) 8252
930427 P. roseicapitis (Neumoegen & Dyar, 1893) (Euchaetes) 8253
930428 P. flavidorsalis Barnes & McDunnough, 1913 (Pygarctia) 8253.1
930429 P. spraguei (Grote, 1875) (Euchaetes) 8254
conspicua (Neumoegen, 1890) (Euchaetes)
930430 P. abdominalis Grote, 1871 (Pygarctia) 8255
grossbecci Hampson, 1920 (Pygarctia)
grossbecki Davis, 1913 (Pygarctia)
930431 P. eglenensis (Clemens, 1861) (Euchaetes) 8256
vivida (Grote, 1882) (Euchaetes)

Genus KODIOSOMA Stretch, 1872

930432 K. fulva Stretch, 1872 (Kodiosoma) 8167
eavesii Stretch, 1872 (Kodiosoma)
nigra Stretch, 1872 (Kodiosoma)
otero Barnes, 1907 (Kodiosoma) *[8168]*
tricolor Stretch, 1872 (Kodiosoma)

Subtribe CTENUCHINA Kirby, 1837

Genus CTENUCHA Kirby, 1837
EUCTENUCHA Grote, 1873

930433 C. venosa Walker, 1854 (Ctenucha) 8260
tigrina Strecker, 1899 (Ctenucha)
930434 C. cressonana Grote, 1863 (Ctenucha) 8261
lutea Grote, 1902 (Ctenucha)
sanguinaria Strecker, 1878 (Ctenucha)
930435 C. virginica (Esper, 1794) (Sphinx) 8262
latreilliana Kirby, 1837 (Ctenucha)
930436 C. multifaria (Walker, 1854) (Apistosia) 8263
luteoscapus Neumoegen & Dyar, 1893 (Ctenucha)
930437 C. rubroscapus (Ménétriés, 1857) (Glaucopis) 8264
corvina Boisduval, 1869 (Ctenucha)
ochroscapus Grote & Robinson, 1868 (Ctenucha)
walsinghamii Edwards, 1873 (Ctenucha)
930438 C. brunnea Stretch, 1872 (Ctenucha) 8265

Genus DAHANA Grote, 1875

930439 D. atripennis Grote, 1875 (Dahana) 8266

Genus CISSEPS Franclemont, 1936
SCEPSIS Walker, 1854

930440 C. fulvicollis (Hübner, [1818]) (Glaucopis) 8267
cocklei (Dyar, 1904) (Scepsis)
gravis (Edwards, 1886) (Scepsis)
matthewi (Edwards, 1873) (Scepsis)
packardii (Grote, 1865) (Scepsis) *[8268]*
pallens (Edwards, 1886) (Scepsis)
semidiaphana (Harris, 1839) (Glaucopis)
wrightii (Stretch, 1885) (Scepsis) *[8269]*

Subtribe EUCHROMIINA Butler, 1876

Genus LYMIRE Walker, 1854

930443 L. edwardsii (Grote, 1881) (Scepsis) 8270

Genus EUCEREON Hübner, 1819
ACRIDOPSIS Butler, 1876
ERITHALES Poey, 1832
GALETHALEA Butler, 1876
THEAGES Walker, 1855

930444 E. myrina Druce, 1884 (Eucereon) STRAY [NEW]
NOTE: Reported as new to NA by Donahue (1993).
930445 E. erythrolepsis Dyar, 1910 (Eucereon) STRAY [NEW]
NOTE: Reported as new to NA by Donahue (1993).
erythrolepis; Hampson, 1914 (Eucereon) missp.

Genus URANOPHORA Hübner, [1831]
DIABAENA Felder, 1874
METRIOPHYLA Butler, 1877
NAPATA Walker, 1854

930445.5 U. leucotelus ([Butler], 1876) (Napata) STRAY [NEW]
NOTE: First NA record from TX in the the 2013 Season Summary of the Lepidopterists' Society (2014).
venezuelensis (Klages, 1906) (Napata)

Genus NELPHE Herrich-Schäffer, 1858

930446 N. carolina Edwards, 1886 (Nelphe) 8271
confusum (Rothschild, 1912) (Eucereon)
cubensis (Schaus, 1904) (Eucereon)
930447 N. relegatum (Schaus, 1911) (Eucereon) STRAY [NEW]

Genus ACLYTIA Hübner, 1819
PERCOTE Walker, 1854

930447.5 A. heber (Cramer, [1780]) (Sphinx) STRAY [NEW]
flaviventris Möschler, 1872 (Aclytia)
halys (Stoll, in: Cramer, [1781]) (Sphinx)
insignata (Draudt, 1915) ([unknown])

Genus EMPYREUMA Hübner, 1818
ID INFO: Weller et al. (2004).
CHRYSAOR Hübner, 1808

930448 E. pugione (Linnaeus, 1767) (Sphinx) [NEW]
NOTE: Pohl et al. (2016) erroneously applied the number 930448 to the synonym *affinis*, and did not list *pugione*.
affinis Rothschild, 1912 (Empyreuma) *[8272]*
erythropterus (Hübner, 1808) (Chrysaor)
haitensis Rothschild, 1912 (Empyreuma)
lichas (Cramer, [1775]) (Sphinx)
mucro Zerny, 1912 (Empyreuma)
portoricensis Rothschild, 1912 (Empyreuma)
sanguinea Rothschild, 1912 (Empyreuma)
sanguinosa (Martyn, 1797) (Sphinx)

Genus MACROCNEME Hübner, 1818

930449 M. chrysitis (Guérin-Méneville, 1844) (Glaucopis) 8273
iole Druce, 1884 (Macrocneme)

Genus ANTICHLORIS Hübner, 1818 (excl.)

93 0449.5E A. viridis Druce, 1884 (Antichloris) EXCL. 8274
NOTE: Excluded from the NA fauna; known records are tropical interceptions (Lafontaine & Schmidt 2010).

Genus APEPLOPODA Watson, 1980
ID INFO: Hernandez-Baz et al (2012).
GYMNOPODA Felder, 1874

93 0450 A. mecrida (Druce, 1889) (Gymnopoda) [NEW]
NOTE: Reported as new to NA by Donahue (1993).
dulcicordis (Dyar, 1907) (Mystrocneme)

Genus EPISCEPSIS Butler, 1877

93 0451 E. inornata (Walker, 1856) (Automolis) 8275

Genus PSILOPLEURA Druce, 1898

93 0452 P. vittata (Walker, 1865) (Pheia) STRAY 8276
93 0453 P. polia Druce, 1898 (Psilopleura) extralim.; STRAY [NEW]
ssp. a. minax Draudt, 1915 (Psilopleura)

Genus PSEUDOSPHEX Hübner, 1818
ABROCHIA Herrich-Schäffer, 1855
CHRYSOSTOLA Herrich-Schäffer, [1855]
PSEUDARGYROEIDES Klages, 1906
SPHECOPSYCHE Dognin, 1898

93 0454 P. leovazquezae (Pérez & Sánchez, [1986]) (Abrochia) STRAY [NEW]
NOTE: Reported as new to NA by Donahue (1993).

Genus MYRMECOPSIS Barnes & Benjamin, 1924
SPHECOPSIS Felder, 1874

93 0455 M. strigosa (Druce, 1884) (Amycles) 8277

Genus COSMOSOMA Hübner, 1823
ARISTODAEMA Wallengren, 1858
BOMBOPSYCHE Hampson, 1898
ERRUCA Walker, 1854
ILIPA Walker, 1854
LAGARIA Walker, 1854
REZIA Kirby, 1892
SPHECOMIMAX Bryk, 1953

93 0456 C. festiva (Walker, 1854) (Glaucopis) STRAY 8278
aleus Schaus, 1889 (Cosmosoma)
93 0457E C. teuthras (Walker, 1854) (Glaucopis) EXCL. 8279
NOTE: Removed from the NA list by Lafontaine & Schmidt (2015), as no verifiable NA records could be located.
93 0458 C. myrodora Dyar, 1907 (Cosmosoma) 8280

Genus DIDASYS Grote, 1875

93 0459 D. belae Grote, 1875 (Didasys) 8281

Genus SYNTOMEIDA Harris, 1839
HIPPOLA Walker, 1854

93 0460 S. ipomoeae (Harris, 1839) (Glaucopis) 8282
euterpe (Herrich-Schäffer, 1855) (Glaucopis)
ferox (Walker, 1854) (Euchromia)
93 0461 S. melanthus (Cramer, [1779]) (Sphinx) extralim. 8283
ssp. a. albifasciata Butler, 1876 (Syntomeida)
93 0462 S. epilais (Walker, 1854) (Euchromia) 8284
ssp. a. epilais (Walker, 1854) (Euchromia)
ssp. b. jucundissima Dyar, 1907 (Syntomeida)
93 0462.1 S. syntomoides (Boisduval, 1836) (Glaucopis) [NEW]
amphitrite (Lucas, 1857) (Glaucopis)
angasi Druce, 1884 (Syntomeida)
niveifascia (Walker, 1856) (Calonota)
saulcyi (Guérin-Méneville, [1844]) (Glaucopis)

Genus PSEUDOCHARIS Druce, 1884

93 0463 P. minima (Grote, 1867) (Hippola) 8286

Genus POLIOPASTEA Hampson, 1898
CHRYSOCNEME Draudt, 1917

93 0464 P. clavipes (Boisduval, 1870) (Mastigocera) [NEW]
NOTE: Reported as new to NA by Donahue (1993).

Genus HORAMA Hübner, 1819
CALLICARUS Grote, 1866
DRUCEA Kirby, 1892
MASTIGOCERA Harris, 1839
PHYLLOECIA Guérin-Méneville, 1843

93 0465 H. panthalon (Fabricius, 1793) (Zygaena) extralim. 8287
panthelon; Ferguson & Opler, 2006 (Horama) missp.
ssp. a. texanus (Grote, 1867) (Callicarus)
93 0466 H. plumipes (Drury, 1773) (Phalaena) 8288
jalapensis Neumoegen, 1890 (Horama)
punctata (Guérin-Méneville, 1844) (Phylloecia)

Genus PHOENICOPROCTA Hampson, 1898
HYELA Walker, 1854

93 0467 P. lydia (Druce, 1889) (Dycladia) [NEW]
thera (Druce, 1889) (Dycladia)
93 0468 P. hampsonii (Barnes, 1904) (Syntomeida) 8285
befana (Skinner, 1906) (Syntomeida)

Genus NYRIDELA Lucas, 1857
MOCHLOPTERA Butler, 1876

93 0468.5 N. xanthocera (Walker, 1856) (Gymnelia) [NEW]

Subfamily HERMINIINAE [Leach, 1815]

Genus IDIA Hübner, 1813
CAMPTYLOCHILA Stephens, 1834
EPIZEUXIS Hübner, 1818
HELIA Duponchel, 1845
HELIA Guenée, 1854
PSEUDAGLOSSA Grote, 1874
REABOTIS Smith, 1903

93 0469 I. americalis (Guenée, 1854) (Helia) 8322
pulverosa (Smith, 1893) ([unknown])
scriptipennis (Walker, 1858) (Microphysa)
93 0470 I. majoralis (Smith, 1895) (Epizeuxis) 8324
93 0471 I. aemula Hübner, 1814 (Idia) 8323
concisa (Walker, 1860) (Herminia)
herminoides (Walker, 1860) (Homoptera)
mollifera (Walker, 1858) (Microphysa)
undulalis (Stephens, 1834) (Camptylochila)
93 0472 I. concisa of authors; (not Walker, 1860) (Herminia) MISAPPL. [NEW]
NOTE: This is a placeholder name for the *Idia* "new species near *aemula*" of many authors. The name "*concisa*" was applied to it by Forbes (1954) and others. However the *concisa* holotype is a specimen of *I. aemula*, so technically that name is a synonym (Lafontaine & Schmidt 2010).
93 0473 I. suffusalis (Smith, 1899) (Epizeuxis) 8325
93 0474 I. rotundalis (Walker, 1866) (Hormisa) 8326
borealis (Smith, 1884) (Helia)
93 0475 I. forbesii (French, 1894) (Pseudaglossa) [NEW]
forbesi; Franclemont & Todd, 1983 (Idia) emend. [8327]
merricki (Smith, 1905) (Epizeuxis)
93 0476 I. julia (Barnes & McDunnough, 1918) (Camptylochila) 8328
93 0477 I. diminuendis (Barnes & McDunnough, 1918) (Camptylochila) 8329
93 0478 I. scobialis (Grote, 1880) (Pseudaglossa) 8330
93 0479 I. laurentii (Smith, 1893) (Epizeuxis) [NEW]
laurenti; Franclemont & Todd, 1983 (Idia) emend. [8331]
93 0480 I. terrebralis (Barnes & McDunnough, 1912) (Epizeuxis) 8332
93 0481 I. denticulalis (Harvey, 1875) (Pseudaglossa) 8333
93 0482 I. lubricalis (Geyer, 1832) (Epizeuxis) 8334
ssp. a. lubricalis (Geyer, 1832) (Epizeuxis)
bistrigalis (Stephens, 1834) (Camptylochila)
phaealis (Guenée, 1854) (Helia)
surrectalis (Walker, 1859) (Bleptina)
ssp. b. cobeta (Smith, 1910) (Epizeuxis)

intensalis (Smith, 1908) (Epizeuxis)
intensinalis; Lafontaine & Schmidt, 2010 (Idia) missp.

930483 I. occidentalis (Smith, 1884) (Helia) [NEW]
partitalis (Smith, 1908) (Epizeuxis)

930484 I. parvulalis (Barnes & McDunnough, 1911) (Epizeuxis) 8335

930485 I. gopheri (Smith, 1899) (Epizeuxis) 8336

930486 I. immaculalis (Hulst, 1886) (Botis) 8337

Genus PHALAENOPHANA Grote, 1873
NEOHERMINIA Druce, 1891

930487 P. pyramusalis (Walker, 1859) (Herminia) 8338
gyasalis (Walker, 1859) (Herminia)
rurigena Grote, 1873 (Phalaenophana)

930488 P. extremalis (Barnes & McDunnough, 1912) (Renia) 8339

Genus ZANCLOGNATHA Lederer, 1857
ID INFO (partial): Wagner & McCabe (2011).
CLEPTOMITA Grote, 1873
MEGACHYTA Grote, 1873
PITYOLITA Grote, 1873

930489 Z. lituralis (Hübner, 1818) (Epizeuxis) 8340

930490 Z. theralis (Walker, 1859) (Herminia) 8341
deceptricalis Zeller, 1873 (Zanclognatha)
gypsalis (Grote, 1880) (Megachyta) [8342]
inconspicualis (Grote, 1883) (Megachyta) [8344]

930491 Z. minoralis of authors; not Smith, 1895 (Zanclognatha) MISAPPL. [NEW]
NOTE: As discussed in the next entry the identity of "true" *Z. minoralis* remains unknown. We maintain usage of the name in the sense of Lafontaine & Schmidt (2010) as a placeholder for the species in the *theralis* group that has long been called *Z. minoralis*.

930491.1E Z. minoralis Smith, 1895 (Zanclognatha) EXCL.; ident. uncert. 8343
NOTE: This species was described from "Long Island, NY (probably)", but that is deemed erroneous, as no NA *Zanclognatha* looks like the lectotype.

930492 Z. laevigata (Grote, 1872) (Herminia) 8345
modestalis Dyar, 1903 (Zanclognatha)
obsoleta Smith, 1884 (Zanclognatha)
reversata Dyar, 1903 (Zanclognatha)

930493 Z. atrilineella (Grote, 1873) (Cleptomita) 8346

930494 Z. obscuripennis (Grote, 1872) (Herminia) 8347

930495 Z. pedipilalis (Guenée, 1854) (Herminia) 8348

930496 Z. protumnusalis (Walker, 1859) (Herminia) 8349
minimalis Grote, 1878 (Zanclognatha)

930496.1 Z. dentata Wagner & McCabe, 2011 (Zanclognatha) [NEW]

930497 Z. martha Barnes, 1928 (Zanclognatha) 8350

930498 Z. cruralis (Guenée, 1854) (Herminia) 8351

930499 Z. marcidilinea (Grote, 1872) (Herminia) [NEW]
NOTE: Replacement name by Lafontaine & Honey (2009) for the species that had been previously known as *Z. jacchusalis*.
jacchusalis of authors; (not Walker, 1859) (Herminia) misappl.

930500 Z. jacchusalis (Walker, 1859) (Herminia) 8352
ssp. a. jacchusalis (Walker, 1859) (Herminia)
ochreipennis (Grote, 1872) (Herminia) [8353]
ssp. b. lutalba (Smith, 1906) (Bomolocha) [8354]
ssp. c. bryanti Barnes, 1928 (Zanclognatha)

Genus CHYTOLITA Grote, 1873

930502 C. morbidalis (Guenée, 1854) (Herminia) 8355
fulicalis Smith, 1907 (Chytolita)
petrealis Grote, 1880 (Chytolita) [8356]
punctiformis (Smith, 1895) (Zanclognatha)

Genus SIMPLICIA Guenée, 1854

930504 S. cornicalis (Fabricius, 1794) (Phalaena) I [NEW]
NOTE: Introduced from southeast Asia to FL (first found by Jim Vargo in 2007) and subsequently found in LA (by Vernon Brou, Jr. in 2008) (Lafontaine & Schmidt 2010).
caeneusalis (Walker, [1859]) (Sophronia)

Genus MACROCHILO Hübner, 1825
ID INFO: Ferguson (1982b).
HORMISA Walker, 1859
LITOGNATHA Grote, 1873
PALLACHIRA Grote, 1877
SISYRHYPENA Grote, 1873
XYLORMISA Forbes, 1922

930505 M. louisiana (Forbes, 1922) (Xylormisa) 8361

930506 M. bivittata (Grote, 1877) (Pallachira) 8359

930507 M. santerivalis Ferguson, 1982 (Macrochilo) [NEW]

930508 M. absorptalis (Walker, 1859) (Hormisa) 8357
nubilifascia (Grote, 1873) (Litognatha)

930509 M. hypocritalis Ferguson, 1982 (Macrochilo) [NEW]

930510 M. litophora (Grote, 1873) (Litognatha) 8358

930511 M. orciferalis (Walker, 1859) (Hormisa) 8360
harti; Franclemont & Todd, 1983 (Macrochilo) emend.
hartii (French, 1894) (Pallachira)
pupillaris (Grote, 1873) (Sisyrhypena)

Genus PHALAENOSTOLA Grote, 1873
EPIDELTA Nye, 1975
PHILOMETRA Grote, 1872

930512 P. metonalis (Walker, 1859) (Herminia) 8362
effusalis (Walker, 1860) (Hormisa)
gaosalis (Walker, 1859) (Epizeuxis)
[illegible]ceptaria (Walker, 1860) (Numeria)
[illegible]ngilabris (Grote, 1872) (Herminia)

930513 P. eumelusalis (Walker, 1859) (Herminia) 8363
serraticornis (Grote, 1872) (Herminia)

930514 P. larentioides Grote, 1873 (Phalaenostola) 8364
citima Grote, 1873 (Phalaenostola)

930515 P. hanhami (Smith, 1899) (Philometra) 8365

Genus TETANOLITA Grote, 1873

930516 T. mynesalis (Walker, 1859) (Bleptina) 8366
lixalis Grote, 1873 (Tetanolita)

930517 T. palligera (Smith, 1884) (Heterogramma) 8367
greta Smith, 1909 (Tetanolita)

930518 T. floridana Smith, 1895 (Tetanolita) 8368
ssp. a. floridana Smith, 1895 (Tetanolita)
ssp. b. fulata Smith, 1909 (Tetanolita)

930519 T. negalis Barnes & McDunnough, 1912 (Tetanolita) 8369

Genus BLEPTINA Guenée, 1854
ID INFO (partial): Troubridge (2020).

930520 B. caradrinalis Guenée, 1854 (Bleptina) 8370
cloniasalis (Walker, 1859) (Herminia)
priassalis Walker, 1859 (Bleptina)
subjecta Möschler, 1890 (Bleptina)
thisbesalis Walker, 1859 (Bleptina)

930520.1 B. biformata Troubridge, 2020 (Bleptina) [NEW]

930521 B. extincta Troubridge, 2020 (Bleptina) [NEW]
NOTE: First reported from NA (FL) by Dickel (1991), as *B. araealis*, a species described from the Bahamas. It was listed by Lafontaine & Schmidt (2010) as "*Bleptina* species near *araealis*".
araealis of authors; (not Hampson, 1901) (Nodaria) misappl.

930522 B. inferior Grote, 1872 (Bleptina) 8371
medialis Smith, 1895 (Bleptina)

930523 B. sangamonia Barnes & McDunnough, 1912 (Bleptina) 8372

930524 B. flaviguttalis Barnes & McDunnough, 1912 (Bleptina) 8373

930525 B. minimalis Barnes & McDunnough, 1912 (Bleptina) 8374

930525.1 B. verticalis Troubridge, 2020 (Bleptina) [NEW]

930526 B. flavivena Troubridge, 2020 (Bleptina) [NEW]
[illegible]atymnusalis (Walker, 1859) (Bocana)
hydrillalis of authors; not Guenée, 1854 (Bleptina) misappl. [8375]
NOTE: Lafontaine & Schmidt (2010) determined that FL records were not *B. hydrillalis*, but referred to a species that was undescribed at that time, later described by Troubridge (2020).

Genus HYPENULA Grote, 1876

930527 H. cacuminalis (Walker, 1859) (Hypena) 8376
biferalis (Walker, 1859) (Herminia)
opacalis Grote, 1876 (Hypenula)

930528 H. caminalis Smith, 1905 (Hypenula) 8377

Genus RENIA Guenée, 1854

93 0529 R. salusalis (Walker, 1859) (Herminia) 8378
brevirostralis Grote, 1872 (Renia)
93 0530 R. factiosalis (Walker, 1859) (Hypena) 8379
alutalis Grote, 1872 (Renia)
centralis Grote, 1872 (Renia)
clitosalis (Walker, 1859) (Herminia)
plenilinealis Grote, 1872 (Renia)
tilosalis Smith, 1909 (Renia)
93 0531 R. nemoralis Barnes & McDunnough, 1918 (Renia) 8380
93 0532 R. discoloralis Guenée, 1854 (Renia) 8381
fallacialis (Walker, 1859) (Hypena)
generalis (Walker, 1859) (Hypena)
thraxalis (Walker, 1859) (Herminia)
93 0533 R. pulverosalis Smith, 1895 (Renia) 8382
93 0534 R. hutsoni Smith, 1906 (Renia) 8383
93 0535 R. rigida Smith, 1905 (Renia) 8384
93 0536 R. flavipunctalis (Geyer, 1832) (Antiblemma) 8384.1
atrimacula Smith, 1910 (Renia)
belfragei Grote, 1872 (Renia)
exserta Smith, 1909 (Renia)
heliusalis (Walker, 1859) (Herminia)
pastoralis Grote, 1872 (Renia)
pastorialis; Franclemont & Todd, 1983 (Renia) missp.
phalerosalis (Walker, 1859) (Herminia)
93 0537 R. fraternalis Smith, 1895 (Renia) 8385
93 0538 R. adspergillus (Bosc, [1800]) (Crambus) 8386
larvalis Grote, 1872 (Renia)
restrictalis Grote, 1872 (Renia)
93 0539 R. sobrialis (Walker, 1859) (Hypena) 8387
93 0540 R. subterminalis Barnes & McDunnough, 1912 (Renia) 8388
93 0541 R. mortualis Barnes & McDunnough, 1912 (Renia) 8389

Genus THURSANIA Schaus, 1913

93 0541.5 T. lycimnia (Druce, 1891) (Theotinus) [NEW]
NOTE: A TX specimen reported in the 2015 Season Summary of the Lepidopterists' Society (2016) was determined by Don Lafontaine.

Genus ARISTARIA Guenée, 1854

93 0542 A. theroalis (Walker, 1859) (Bleptina) 8390

Genus PHYSULA Guenée, 1854
METACINIA Schaus, 1913

93 0543 P. albipunctilla Schaus, 1916 (Physula) [NEW]

Genus CARTERIS Dognin, 1914

93 0544 C. oculatalis (Möschler, 1890) (Zanclognatha) 8391
anser (Druce, 1891) (Epizeuxis)
93 0545 C. lineata (Druce, 1898) (Epizeuxis) [NEW]

Genus PHLYCTAINA Möschler, 1890
APHLYCTAENA Kaye, 1927

93 0546 P. irrigualis Möschler, 1890 (Phlyctaina) 8392
griseirena (Hampson, 1898) (Nodaria)

Genus LASCORIA Walker, 1859
ID INFO (partial): Troubridge (2020).
ALBERTICODES Biezanko & Ruffinelli, 1963
EPITOMIPTERA Kaye, 1923
EULINTNERI Grote, 1882
GABERASA Walker, 1866
TORTRICODES Guenée, 1854

93 0547 L. ambigualis (Walker, 1866) (Gaberasa) 8393
bifidalis (Grote, 1872) (Tortricodes)
indivisalis (Grote, 1872) (Tortricodes)
93 0548 L. aon (Druce, 1891) (Tortricodes) 8394
93 0549 L. alucitalis (Guenée, 1854) (Tortricodes) 8395
93 0550 L. orneodalis (Guenée, 1854) (Tortricodes) 8396
tagusalis (Walker, 1859) (Herminia)
93 0550.1 L. coma Troubridge, 2020 (Lascoria) [NEW]

Genus PALTHIS Hübner, 1825
CLANYMA Guenée, 1854

93 0551 P. angulalis (Hübner, 1796) (Pyralis) 8397
aracinthusalis (Walker, 1859) (Mardara)
93 0552 P. asopialis (Guenée, 1854) (Clanyma) 8398
insignalis (Walker, 1859) (Bertula)

Genus REJECTARIA Guenée, 1854

93 0553 R. albisinuata (Smith, 1905) (Simplicia) 8399

Genus REDECTIS Nye, 1975
DERCETIS Groye, 1878
DIRCETIS; Dyar, 1903 missp.

93 0554 R. pygmaea (Grote, 1878) (Dercetis) 8400
93 0555 R. vitrea (Grote, 1878) (Dercetis) 8401

Genus MACRISTIS Schaus, 1916

93 0556 M. bilinealis (Barnes & McDunnough, 1912) (Dercetis) 8402
93 0557 M. geminipunctalis Schaus, 1916 (Macristis) [NEW]
NOTE: Reported from NA (FL) by Dickel (1991).
93 0558 M. schausi Barnes & Benjamin, 1924 (Macristis) 8403
flavipennis Barnes & Benjamin, 1924 (Macristis)

Subfamily PANGRAPTINAE Grote, 1882

Genus PANGRAPTA Hübner, 1818
MARMORINIA Guenée, 1852

93 0559 P. decoralis Hübner, 1818 (Pangrapta) 8490
elengantalis (Fitch, 1856) (Hypena)
epionoides (Guenée, 1852) (Marmorinia)
geometroides (Guenée, 1852) (Marmorinia)
recusans (Walker, 1866) (Thyridospila)

Genus LEDAEA Druce, 1891
LEGNA Walker, 1865

93 0560 L. perditalis (Walker, 1859) (Hyamia) 8491
semilineata (Walker, 1865) (Legna)
umbrifascia (Grote, 1873) (Spargaloma)

Subfamily HYPENINAE Herrich-Schäffer, [1851]

Genus HYPENA Schrank, 1802
ID INFO (partial): Butler (1987).
ANEPISCHETOS Smith, 1900
BOMOLOCHA Hübner, 1825
ERICHILA Billberg, 1820
EUHYPENA Grote, 1873
HERPYZON Hübner, 1822
LOMANALTES Grote, 1873
MACRHYPENA Grote, 1873
MEGAGYPENA Grote, 1873
OPHIUCHE Hübner, 1825
PLATHYPENA Grote, 1873

93 0561 H. manalis Walker, 1859 (Hypena) 8441
93 0562 H. baltimoralis Guenée, 1854 (Hypena) 8442
benignalis Walker, 1859 (Hypena)
laciniosa Zeller, 1872 (Hypena)
93 0563 H. ramstadtii (Wyatt, 1967) (Bomolocha) 8442.1
93 0564 H. bijugalis Walker, 1859 (Hypena) 8443
albisignalis Zeller, 1872 (Hypena)
fecialis (Grote, 1881) (Bomolocha)
internalis Robinson, 1870 (Hypena)
pallialis Zeller, 1872 (Hypena)
toreuta Grote, 1872 (Hypena)
93 0565 H. palparia Walker, 1861 (Hypena) 8444
scutellaris (Grote, 1873) (Bomolocha)
93 0566 H. abalienalis Walker, 1859 (Hypena) 8445
93 0567 H. deceptalis Walker, 1859 (Hypena) 8446
perangulalis (Harvey, 1875) (Bomolocha)
93 0568 H. madefactalis Guenée, 1854 (Hypena) 8447
achatinalis Zeller, 1872 (Hypena)
caducalis Walker, 1859 (Hypena)
damnosalis Walker, 1859 (Hypena)

profecta Grote, 1872 (Hypena)

930569 H. appalachiensis (Butler, 1987) (Bomolocha) [NEW]
930570 H. sordidula Grote, 1872 (Hypena) 8448
930571 H. subidalis Guenée, 1854 (Hypena) [NEW]
pilosalis Guenée, 1854 (Hypena)
triangularis Möschler, 1886 (Hypena)
930572 H. heuloa (Smith, 1905) (Bomolocha) [NEW]
henloa; ([various, no date]) (Bomolocha) missp. [8449]
930573 H. atomaria (Smith, 1903) (Bomolocha) 8450
chicagonis (Dyar, 1904) (Bomolocha)
perpallida (Dyar, 1904) (Bomolocha)
930574 H. vega (Smith, 1900) (Bomolocha) 8451
930575 H. edictalis Walker, 1859 (Hypena) 8452
lentiginosa (Grote, 1873) (Meghypena)
velifera (Grote, 1873) (Meghypena)
930576 H. umbralis (Smith, 1884) (Bomolocha) 8453
930577 H. variabilis Druce, 1890 (Hypena) 8454
cachialis Schaus, 1912 (Hypena)
930578 H. vetustalis Guenée, 1854 (Hypena) [NEW]
NOTE: Recent NA record based on FL specimens collected by T. Dickel in southern FL. The earlier FL records reported by Dickel (1991) and TX records by Knudson & Bordelon (2004) are misidentifications that refer to *H. tenebrosa* (Lafontaine & Schmidt 2010).
930579 H. lividalis (Hübner, 1796) (Pyralis) C/I [NEW]
NOTE: Recently discovered in NA; presumably pan-tropical, but possibly introduced. It was previously known as *H. abjuralis*, now recognized as a synonym (Lafontaine & Schmidt 2013a).
abjuralis Walker, [1859] (Hypena) [8456]
bipartita (Smith, 1900) (Anepischetos)
scissalis Walker, 1866 (Hypena)
930580 H. minualis Guenée, 1854 (Hypena) 8457
citata Grote, 1872 (Hypena)
constans (Hayes, 1975) (Ophiuche)
obtectalis Möschler, 1886 (Hypena)
trituberalis Zeller, 1872 (Hypena)
930581.1 H. tenebrosa (Walker, 1865) (Peliala) [NEW]
annulalis (Grote, 1876) (Bomolocha) [8458]
930582 H. degesalis Walker, 1859 (Hypena) [NEW]
ancara Druce, 1890 (Hypena)
degasalis; (Franclemont & Todd, 1983) (Ophiuche) missp. [8459]
vinculalis Möschler, 1890 (Hypena)
930583 H. porrectalis (Fabricius, 1794) (Phalaena) 8460
obditalis Walker, 1859 (Hypena)
umbratilis Dognin, 1914 (Hypena)
930584 H. humuli Harris, 1841 (Hypena) 8461
albopunctata Tepper, 1881 (Hypena)
evanidalis Robinson, 1870 (Hypena)
germanalis Walker, 1859 (Hypena)
olivacea Grote, 1873 (Hypena)
930585 H. californica Behr, 1870 (Hypena) 8462
930586 H. decorata Smith, 1884 (Hypena) 8463
930587 H. modestoides Poole, 1989 (Hypena) [NEW]
NOTE: Replacement name by Poole (1989) for *Hypena modesta* Smith, 1895, a junior homonym of *Hypena modesta* Moore, 1882.
modesta Smith, 1895 (Hypena) preocc. [8464]
930588 H. scabra (Fabricius, 1798) (Hyblaea) 8465
erectalis Guenée, 1854 (Hypena)
revoluta (Walker, 1858) (Poaphila)
subrufalis Grote, 1872 (Hypena)
930589 H. eductalis Walker, [1859] (Hypena) 8455
laetulus (Grote, 1873) (Lomanaltes)
930589.1 H. opulenta (Christoph, 1877) (Bomolocha) I [NEW]
NOTE: Introduced to eastern Canada for biocontrol of the invasive European swallow-worts (*Vincetoxicum* spp.; Apocynaceae) (Young & Weed 2014).

Genus COLOBOCHYLA Hübner, 1825
MADOPA Stephens, 1829
SALIA Hübner, 1806

930590 C. interpuncta (Grote, 1872) (Madopa) 8411
ssp. a. interpuncta (Grote, 1872) (Madopa)
saligna Zeller, 1872 (Colobochila [sic])
ssp. b. rufa (Grote, 1883) (Salia)

Genus MELANOMMA Grote, 1875

930591 M. auricinctaria Grote, 1875 (Melanomma) 8412

Subfamily RIVULINAE Grote, 1895

NOTE: Rivulinae is a senior homonym of a fish family-group name, Rivulidae Meyer, 1925. Nevertheless, Van der Laan & van Nieukerken (2019) have petitioned the ICZN to change the Lepidoptera name to Rivulainae in the interests of preserving stability in fish taxonomy. See also Heppner (2019b).

Genus JANZENA Troubridge, 2020
ID INFO: Troubridge (2020).

930591.5 J. pyraliformis Troubridge, 2020 (Janzena) [NEW]

Genus RIVULA Guenée, 1845
ID INFO: Sullivan (2009).
PASIRA Moore, 1882

930592 R. propinqualis Guenée, 1854 (Rivula) 8404
930593 R. stepheni Sullivan, 2009 (Rivula) [NEW]
930594 R. pusilla Möschler, 1890 (Rivula) [NEW]
nigripuncta Schaus, 1913 (Rivula)

Genus OXYCILLA Grote, 1896

930595 O. tripla Grote, 1896 (Oxycilla) 8405
mecyanalis (Druce, 1898) (Gustiana)
930597 O. malaca (Grote, 1873) (Erastria) 8407
930598 O. mitographa (Grote, 1873) (Erastria) 8408
930599 O. ondo (Barnes, 1907) (Erastria) 8409

Genus ZELICODES Grote, 1896

930600 Z. linearis (Grote, 1883) (Litognatha) 8410

Subfamily SCOLIOPTERYGINAE Herrich-Schäffer, [1852]

Tribe SCOLIOPTERYGINI Herrich-Schäffer, [1852]

Genus SCOLIOPTERYX Germar, 1810
EPHEMIAS Hübner, 1821
EUPHAIS Hübner, 1822
GONOPTERA Berthold, 1827
PTERODONTA R. L., 1817

930601 S. libatrix (Linnaeus, 1758) (Phalaena) H 8555

Tribe ANOMINI Grote, 1882

Genus ANOMIS Hübner, 1821
COSMOPHILA Boisduval, 1833
GONITIS Guenée, 1852
SCOEDISA Walker, 1858

930602 A. erosa Hübner, 1821 (Anomis) 8545
930603 A. flava (Fabricius, 1775) (Noctua) extralim. H 8546
ssp. a. fimbriago (Stephens, 1829) (Xanthia)
serrata Barnes & McDunnough, 1913 (Anomis)
930605 A. impasta of authors; not Guenée, 1852 (Anomis) MISAPPL. 8548
NOTE: Listed as *A. impasta* by Franclemont & Todd (in Hodges et al. 1983); this is a placeholder name for an undescribed or misidentified taxon, sensu Lafontaine & Schmidt (2015).
930606 A. luridula Guenée, 1852 (Anomis) 8549
derogata Walker, 1858 (Anomis)
umbrata Schaus, 1911 (Anomis)
930607 A. texana Riley, 1885 (Anomis) 8550
albostigma Cockerell, 1889 (Anomis)
fuscostigma Cockerell, 1889 (Anomis)
930608 A. illita Guenée, 1852 (Anomis) 8551
conducta Walker, 1858 (Anomis)
hostia (Harvey, 1876) (Aletia)
praerupta Möschler, 1890 (Anomis)
tortuosa (Walker, 1858) (Ristra)
930609 A. gentilis Schaus, 1912 (Anomis) [NEW]
exacta of authors; not Hübner, 1822 (Anomis) misappl. [8552]
930610 A. editrix (Guenée, 1852) (Gonitis) 8553
albitacta (Walker, 1857) (Gonitis)
cosmioides (Walker, 1858) (Gonitis)
fractifera (Walker, 1858) (Gonitis)
punctifera (Walker, 1858) (Cosmophila)

93 0610.1E A. cataggellus Dyar, 1913 (Anomis) EXCL. [NEW]
NOTE: This species was reported from TX by Knudson & Bordelon (2004), but Lafontaine & Schmidt (2010) deemed the specimen in question to be misidentified.

Genus RUSICADA Walker, 1858

93 0610.5 R. privata (Walker, 1865) (Gonitis) I [NEW]
NOTE: Introduced from China, first found in NA in PA in 1926 (Zahiri et al. 2017).
commoda (Butler, 1878) (Gonitis) *[8547]*
NOTE: Synonymy by Sugi et al. (in Heppner & Inoue 1992).
griseolineata Warren, 1913 (Rusicada)
subfulvida Warren, 1913 (Rusicada)

Genus ALABAMA Grote, 1895
EUALABAMA Grote, 1896

93 0611X A. argillacea (Hübner, 1823) (Aletia) EXTIRPATED 8554
NOTE: This migrant pest of cotton (*Gossypium* spp.; Malvaceae) was once abundant in southeastern USA, with historic mass northward incursions documented to at least southern ON. It has not been seen in NA since 1998 (Wagner 2009) (contributed by JDY).
bipunctina (Guenée, 1852) (Anomis)
grandipuncta (Guenée, 1852) (Anomis)
xylina (Say, 1828) (Noctua)

Genus DINUMMA Walker, 1858
ID INFO: Adams et al. (2013).
ORTHEAGA Walker, 1865

93 0611.5 D. deponens Walker, 1858 (Dinumma) I [NEW]
NOTE: Introduced from east Asia; first collected in NA in GA in 2012 by Paul Dennehy and James Adams (Adams et al. 2013).
bipunctata (Motschulsky, 1860) (Dichonia)
largeteaui (Oberthür, 1884) (Amphipyra)

Subfamily CALPINAE Boisduval, 1840

Tribe CALPINI Boisduval, 1840

Genus CALYPTRA Ochsenheimer, 1816
CALPA; Pagenstecher, 1909 missp.
CALPE Treitschke, 1825
PERICALPE Berio, 1956

93 0612 C. canadensis (Bethune, 1865) (Calpe) 8536
purpurascens (Walker, 1865) (Plusiodonta)
sobria (Walker, 1865) (Oraesia)

Genus GONODONTA Hübner, 1818
ID INFO: Todd (1959).
ATHYSANIA Hübner, 1823
DOSA Walker, 1865

93 0613 G. sicheas (Cramer, [1777]) (Phalaena) 8537
hesione (Drury, 1782) (Phalaena)
uncina Hübner, 1818 (Gonodonta)
93 0614 G. sinaldus Guenée, 1852 (Gonodonta) 8538
ginaldus; Dyar, 1914 (Gonodonta) missp.
93 0615 G. pyrgo (Cramer, [1777]) (Phalaena) 8539
serix Guenée, 1852 (Gonodonta)
93 0616 G. fulvangula Geyer, 1832 (Gonodonta) [NEW]
chrysotornus (Hampson, 1926) (Athysania)
fulvangala; Lafontaine & Schmidt, 2010 (Gonodonta) missp.
93 0617 G. nutrix (Stoll, in: Cramer, [1780]) (Phalaena) 8540
acmeptera (Sepp, 1848) (Phalaena)
93 0618 G. unica Neumoegen, 1891 (Gonodonta) 8541
93 0619 G. incurva (Sepp, [1840]) (Phalaena) 8542
dentata Felder & Rogenhofer, 1874 (Gonodonta)
elaborans Dyar, 1914 (Gonodonta)
temperata Walker, 1858 (Gonodonta)
teretimacula Guenée, 1852 (Gonodonta)
velata Walker, 1858 (Gonodonta)
93 0620 G. bidens Geyer, 1832 (Gonodonta) STRAY [NEW]
ssp. a. bidens Geyer, 1832 (Gonodonta) (stray)
93 0621 G. nitidimacula Guenée, 1852 (Gonodonta) [NEW]

Genus GONODONTODES Hampson, 1913

93 0621.5 G. dispar Hampson, 1913 (Gonodontodes) [NEW]

Genus PLUSIODONTA Guenée, 1852

93 0622 P. compressipalpis Guenée, 1852 (Plusiodonta) 8534
insignis Walker, 1865 (Plusiodonta)
93 0623 P. amado Barnes, 1907 (Plusiodonta) 8535
suffusa Hill, 1924 (Plusiodonta)

Genus ORAESIA Guenée, 1852 (excl.)

93 0623.5E O. excavata (Butler, 1878) (Calpe) EXCL. [NEW]
NOTE: This species is not known to occur in NA. It has been listed for USA as it occurs in Hawaii.

Tribe OPHIDERINI Guenée, 1852

Genus EUDOCIMA Billberg, 1820
ACACALLIS Hübner, 1823
ADRIS Moore, 1881
ARGADESA Moore, 1881
CORYCIA Hübner, 1823
ELYGEA Billberg, 1820
EUMAENAS Hampson, 1924
HALASTUS Butler, 1892
KHADIRA Moore, 1881
LEPTOPHARA Billberg, 1820
MAENAS Hübner, 1823
OPHIDERES Boisduval, 1832
OTHREIS Hübner, 1823
PURBIA Moore, 1881
RHYTIA Hübner, 1823
TRISSOPHAES Hübner, 1823
VANDANA Moore, 1881

93 0624 E. apta (Walker, 1858) (Ophideres) [NEW]
chalcogramma (Walker, 1865) (Ophideres)
hybrida (Fabricius, 1775) (Noctua)
materna of authors; (not Linnaeus, 1767) (Phalaena) misappl. *[8543]*
93 0625 E. serpentifera (Walker, [1858]) (Ophideres) [NEW]
93 0626 E. tyrannus (Guenée, 1852) (Ophideres) H [NEW]
amurensis (Staudinger, 1892) (Ophideres)

Subfamily HYPOCALINAE Guenée, 1852

Genus HYPOCALA Guenée, 1852

93 0627 H. andremona (Stoll, in: Cramer, [1781]) (Phalaena) 8642
filicornis Guenée, 1852 (Hypocala)
hilli Lintner, 1878 (Hypocala)
nymphagoga (Martyn, 1797) (Phalaena)
pierreti Guenée, 1852 (Hypocala)

Genus HYPSOROPHA Hübner, 1818
ID INFO: McCabe (1992).
GLOCE; Neave, 1939 missp.
GLOEE Hübner, 1808
MONOGONA Guenée, 1852
TIAUSPA Walker, 1858

93 0628 H. monilis (Fabricius, 1777) (Noctua) 8527
93 0629 H. hormos Hübner, 1818 (Hypsoropha) 8528
93 0630 H. baja McCabe, 1992 (Hypsoropha) [NEW]

Genus PSAMMATHODOXA Dyar, 1921

93 0631 P. cochlidioides Dyar, 1921 (Psammathodoxa) 8529
calligrapha (Hampson, 1926) (Sudariophora) *[8526]*
cochilidioides Dyar, 1921 (Psammathodoxa)

Genus AON Neumoegen, 1892

93 0632 A. noctuiformis Neumoegen, 1892 (Aon) 8954

Genus GONIAPTERYX Perty, 1833
GONIOPTERYX; Agassiz, 1846 emend.
RHESCIPHA Walker, 1856

93 0633 G. servia (Stoll, in: Cramer, [1780]) (Phalaena) 8544
obtusa (Walker, 1866) (Rhescipha)
snowi (Skinner, 1906) (Rhescipha)
tullia Perty, 1833 (Goniapteryx)

Subfamily SCOLECOCAMPINAE Grote, 1883

Genus ARUGISA Walker, 1865
DIALLAGMA Smith, 1900

930634 A. lutea (Smith, 1900) (Diallagma) [NEW]
NOTE: This species was treated as a synonym of *A. latiorella* by Franclemont & Todd (in Hodges et al. 1983). It was raised to species status by Lafontaine & Schmidt (2010).
930635 A. latiorella (Walker, 1863) (Acrobasis) 8509
watsoni Richards, 1941 (Arugisa) *[8510]*
930636 A. punctalis (Barnes & McDunnough, 1916) (Epizeuxis) 8511

Genus SCOLECOCAMPA Guenée, 1852
SCOLICOCAMPA; Walker, 1856 missp.

930637 S. liburna (Geyer, 1837) (Clytie) 8514
ligni Guenée, 1852 (Scolecocampa)
930638 S. atriluna Smith, 1903 (Scolecocampa) 8515

Genus RHOSOLOGIA Walker, 1865
CILLA Grote, 1880
EUCALYPTRA Morrison, 1875

930638.5 R. porrecta Walker, 1865 (Rhosologia) [NEW]

Genus GABARA Walker, 1866

930639 G. obscura (Grote, 1883) (Scolecocampa) 8518
930640 G. gigantea (Smith, 1905) (Eucalyptra) 8519
930641 G. stygialis (Smith, 1903) (Eucalyptra) 8520
infumata (Hampson, 1926) (Eucalyptra) *[8521]*
930643 G. subnivosella Walker, 1866 (Gabara) 8522
ssp. a. subnivosella Walker, 1866 (Gabara)
nivealis (Smith, 1903) (Eucalyptra)
ssp. b. bipuncta (Morrison, 1875) (Eucalyptra)
930644 G. distema (Grote, 1880) (Cilla) 8523
ssp. a. distema (Grote, 1880) (Cilla)
depunctata (Strand, 1916) ([unknown])
strigata (Smith, 1902) (Eucalyptra)
ssp. b. humeralis (Smith, 1903) (Eucalyptra)
apicalis (Smith, 1903) (Eucalyptra)
umbonata (Smith, 1903) (Eucalyptra)
930645 G. pulverosalis (Walker, 1866) (Scopula) 8524
minorata (Smith, 1903) (Eucalyptra)

Genus PALPIDIA Dyar, 1898
ECHINOCAMPA Franclemont, 1940

930646 P. pallidior Dyar, 1898 (Palpidia) 8517
cocophaga (Franclemont, 1949) (Echinocampa)

Genus PSEUDORGYIA Harvey, 1875
ARETYPA Smith, 1903

930647 P. versuta Harvey, 1875 (Pseudorgyia) 8512
930648 P. russula Grote, 1883 (Pseudorgyia) 8513
pectinicornis (Smith, 1899) (Eucalyptra)

Genus PHARGA Walker, 1863

930649 P. pallens (Barnes & McDunnough, 1911) (Phiprosopus) 8516

Genus ABABLEMMA Nye, 1975
MICROBLEMMA Hampson, 1910

930650E A. grandimacula (Schaus, 1911) (Phobolosia) EXCL. 8436
NOTE: This species was added to the NA fauna by Franclemont & Todd (in Hodges et al. 1983). Don Lafontaine (in litt.) has not been able to find any vouchers, despite extensive searches in major collections and enquiring with collectors in the southern USA. It is assumed that the record is based on an error or on misidentified material that has since been corrected. The species is hereby removed from the NA list.
930651 A. brimleyana (Dyar, 1914) (Phobolosia) 8437
930652 A. bilineata (Barnes & McDunnough, 1916) (Phobolosia) 8438
930653 A. duomaculata (Barnes & Benjamin, 1925) (Phobolosia) [NEW]
NOTE: Inadvertently omitted from Franclemont & Todd (in Hodges et al. 1983) (Lafontaine & Schmidt 2010).

Genus PHOBOLOSIA Dyar, 1908

930654 P. anfracta (Edwards, 1881) (Nola) 8439
reincarnata Dyar, 1908 (Phobolosia)

Genus NIGETIA Walker, 1866

930655 N. formosalis Walker, 1866 (Nigetia) 8440
melanopa (Zeller, 1872) (Nola)

Genus SIGELA Hulst, 1896
ID INFO (partial): Troubridge (2020).
LYCAUGESIA Hampson, 1912
PSEUDCRASPEDIA Hampson, 1898
PSEUDOCRASPEDIA; [various, no date] missp.
QUANDARA Nye, 1975

930656.1 S. incisa Troubridge, 2020 (Sigela) [NEW]
vilhelmina of authors; (not Dyar, 1916) (Araeoptera) misappl. *[9081]*
NOTE: Reported by Lafontaine & Schmidt (2010) as a complex in the genus *Araeopteron* Hampson, 1893.
930657 S. brauneata (Swett, 1913) (Eois) 8432
930657.1 S. subincisa Troubridge, 2020 (Sigela) [NEW]
930658 S. penumbrata Hulst, 1896 (Sigela) 8433
930659 S. basipunctaria (Walker, 1861) (Acidalia) 8434
melanosticta (Hampson, 1898) (Pseudocraspedia)
930659.1 S. rosea Troubridge, 2020 (Sigela) [NEW]
930659.2 S. lynx Troubridge, 2020 (Sigela) [NEW]
930660 S. eoides (Barnes & McDunnough, 1913) (Acidaliodes) 8435
930660.1 S. sordes Troubridge, 2020 (Sigela) [NEW]
930660.2 S. minuta Troubridge, 2020 (Sigela) [NEW]

Subfamily HYPENODINAE Forbes, 1954

Genus HYPENODES Doubleday, 1850
ID INFO: Ferguson (1954b).
MENOPSIMUS Dyar, 1907
SCHRANKIA Herrich-Schäffer, 1851
THOLOMIGES Lederer, 1857

930661 H. caducus (Dyar, 1907) (Menopsimus) 8420
930662 H. fractilinea (Smith, 1908) (Thalpochares) 8421
turfosalis of authors; (not Wocke, 1850) (Hypena) misid.
NOTE: Misidentification by Krogerus (1954) and Morris (1980).
930663 H. palustris Ferguson, 1954 (Hypenodes) 8422
930664 H. sombrus Ferguson, 1954 (Hypenodes) 8423
930665 H. franclemonti Ferguson, 1954 (Hypenodes) 8424

Genus DASYBLEMMA Dyar, 1923

930666 D. straminea Dyar, 1923 (Dasyblemma) 8425

Genus PARAHYPENODES Barnes & McDunnough, 1918

930667 P. quadralis Barnes & McDunnough, 1918 (Parahypenodes) 8430

Genus HYPENOPSIS Dyar, 1913
ID INFO: Landry et al. (2023 IN PRESS).
NOTE: This genus was reinstated by Landry et al. (2023 IN PRESS); previously it was considered a synonym of *Schrankia* Hübner.

930668 H. macula (Druce, 1891) (Hypenodes) 8431
930668.1 H. calusa Landry & Landry, 2023 (Hypenopsis) [NEW]
930668.2 H. sonora Landry & Landry, 2023 (Hypenopsis) [NEW]

Genus DYSPYRALIS Warren, 1891
ID INFO (partial): Troubridge (2020).

930669 D. illocata Warren, 1891 (Dyspyralis) 8426
humerata (Smith, 1908) (Erastria)
930670 D. puncticosta (Smith, 1908) (Erastria) 8427
930671 D. nigellus (Strecker, 1900) (Epizeuxis) 8428
immuna (Smith, 1908) (Erastria)
930671.1 D. ocala Troubridge, 2020 (Dyspyralis) [NEW]

Genus BRADUNIA Dognin, 1914

93 0672 B. noloides (Barnes & McDunnough, 1916) (Dyspyralis) N. COMB. 8429
NOTE: This species was previously placed in *Dyspyralis*. This species is morphologically very similar to *Bradunia improba* Schaus, 1916, described from French Guiana. DNA barcodes also show a close relationship; the genus does not appear to be congeneric with *Dyspyralis*. We therefore transfer *noloides* to *Bradunia* (n. comb.).

Subfamily BOLETOBIINAE Guenée, [1858]

Tribe BOLETOBIINI Guenée, [1858]

Genus PARASCOTIA Hübner, 1825
ID INFO: Franclemont (1985a).
BOLETOBIA Boisduval, 1840

93 0673 P. fuliginaria (Linnaeus, 1761) (Phalaena) I 8418
NOTE: Introduced from Europe to NA, first found in Toronto, ON (Zahiri et al. 2014, 2017).
carbonaria ([Denis & Schiffermüller], 1775) (Geometra)
lignaria (Fabricius, 1794) (Phalaena)
lunulata (Fabricius, 1794) (Phalaena)
mineta Franclemont, 1985 (Parascotia)
sachalinensis (Matsumura, 1925) (Kara)

Genus MYCTEROPHORA Newman, 1850
ID INFO: Franclemont (1985a).

93 0674 M. inexplicata (Walker, [1863]) (Scotosia) 8413
slossoniae Hulst, 1898 (Mycterophora)
93 0675 M. monticola Hulst, 1896 (Mycterophora) 8414
93 0676 M. longipalpata Hulst, 1896 (Mycterophora) 8415
93 0677 M. geometriformis Hill, 1924 (Mycterophora) 8416
93 0678 M. rubricans Barnes & McDunnough, 1918 (Mycterophora) 8417

Genus METALECTRA Hübner, 1823
ID INFO (partial): Troubridge (2020).
HOMOPYRALIS Grote, 1875
METALESTRA; Barnes & Benjamin, 1924 missp.
STIMMIA Guenée, 1852

93 0679 M. discalis (Grote, 1876) (Homopyralis) 8499
93 0680 M. quadrisignata (Walker, [1858]) (Homoptera) 8500
contracta (Walker, 1860) (Homoptera)
tactus (Grote, 1874) (Homopyralis)
zonata (Walker, 1865) (Homoptera)
93 0681 M. bigallis (Smith, 1908) (Homopyralis) 8501
93 0682 M. tantillus (Grote, 1875) (Homopyralis) 8502
monodia (Dyar, 1903) (Homopyralis)
93 0683 M. diabolica Barnes & Benjamin, 1924 (Metalectra) 8503
93 0684 M. albilinea Richards, 1941 (Metalectra) 8504
93 0685 M. richardsi Brower, 1941 (Metalectra) 8505
93 0686 M. miserulata (Grote, 1882) (Homopyralis) 8506
irentis (Smith, 1905) (Yrias)
93 0687 M. edilis (Smith, 1906) (Homopyralis) 8507
93 0688 M. geminicincta Schaus, 1916 (Metalectra) [NEW]
93 0689 M. cinctus (Smith, 1905) (Homopyralis) 8508
93 0689.1 M. nigrior Troubridge, 2020 (Metalectra) [NEW]
93 0689.2 M. dixoni Troubridge, 2020 (Metalectra) [NEW]

Genus PROSOPARIA Grote, 1883
ID INFO: Lafontaine & Dickel (2009).
FRIESIA Barnes & McDunnough, 1912

93 0690 P. perfuscaria Grote, 1883 (Prosoparia) 8419
93 0691 P. anormalis (Barnes & McDunnough, 1912) (Friesia) [NEW]
93 0692 P. floridana Lafontaine & Dickel, 2009 (Prosoparia) [NEW]

Tribe AVENTIINI Tutt, 1896

Genus "ORUZA" Walker, 1861 PROV. PL.
NOTE: The two species placed here are not "true" *Oruza*, but they are retained here pending description of a new genus (Lafontaine & Schmidt 2010). This genus was out of sequence in Lafontaine & Schmidt (2010), and the species were renumbered by Pohl et al. (2016).

93 0692.5 O. albocostaliata (Packard, 1876) (Acidalia) mispl. 9025
93 0692.6 O. albocostata (Druce, 1899) (Anisodes) mispl. 9026

Tribe EUBLEMMINI Forbes, 1954

Genus EUBLEMMA Hübner, 1829
EUMESTLETA Butler, 1892
EUMICREMMA Berio, 1954

93 0693 E. minima (Guenée, 1852) (Micra) 9076
carmelita (Morrison, 1875) (Thalpochares)
pallida (Schaus, 1904) (Toxophleps)
pennula (Felder & Rogenhofer, 1874) (Thalpochares)
93 0694 E. cinnamomea (Herrich-Schäffer, 1868) (Trothisa) 9077
laphyra (Druce, 1890) (Xanthoptera)
margaritae (Berg, 1882) (Trothisa)
rosescens Hampson, 1898 (Eublemma)
subcinnamomea Strand, 1917 (Eublemma)
93 0695 E. recta (Guenée, 1852) (Micra) 9078
brunneoochracea Strand, 1917 (Eublemma)
flammicincta (Walker, 1865) (Anthophila)
luteipennis Strand, 1917 (Eublemma)
obliqualis (Fabricius, 1794) (Phalaena)
pallescens (Herrich-Schäffer, 1868) (Trothisa)
patruelis (Grote, 1876) (Tarache)
patula (Morrison, 1875) (Tarache)
stalii (Wallengren, 1871) (Micra)
93 0696E E. irresoluta Dyar, 1919 (Eublemma) EXCL. 9079
NOTE: This species was added to the NA fauna by Franclemont & Todd (in Hodges et al. 1983). Don Lafontaine (in litt.) has not been able to find any vouchers, despite extensive searches in major collections and enquiring with collectors in the southern USA. It is assumed that the record is based on an error or on misidentified material that has since been corrected. The species is hereby removed from the NA list.

Genus PROROBLEMMA Hampson, 1910

93 0697 P. testa Barnes & McDunnough, 1913 (Proroblemma) 9080

Tribe PHYTOMETRINI Hampson, 1913

Genus HEMEROPLANIS Hübner, 1818
COPTOCNEMIA Zeller, 1872
PLEONECTYPYERA Grote, 1872
SCOPELOPUS Stephens, 1829

93 0700 H. scopulepes (Haworth, 1809) (Phytometra) 8467
denticulata (Walker, 1866) (Apicia)
geometralis (Grote, 1872) (Pleonectyptera)
inops (Stephens, 1829) (Scopelopus)
irrecta (Walker, 1865) (Poaphila)
pyralis Hübner, 1818 (Hemeroplanis)
scopelopes; Seitz, 1946 (Hemeroplanis) missp.
93 0700.1 H. floccalis (Zeller, 1872) (Coptocnemia) [NEW]
NOTE: Raised to species status by Troubridge (2020).
93 0701 H. punitalis (Smith, 1907) (Pleonectyptera) 8468
93 0703 H. reversalis (Smith, 1907) (Pleonectyptera) 8470
cuernavacalis (Dyar, 1912) (Pleonectyptera)
93 0704 H. habitalis (Walker, 1859) (Hypena) 8471
phalaenalis (Grote, 1872) (Pleonectyptera)
93 0705 H. historialis (Grote, 1882) (Pleonectyptera) 8472
concoloralis Barnes & Benjamin, 1924 (Hemeroplanis)
cumulalis (Dyar, 1910) (Pleonectyptera)
finitima (Smith, 1893) (Pleonectyptera) [8473]
secundalis (Smith, 1907) (Pleonectyptera) [8469]
serena (Smith, 1911) (Pleonectyptera)
tenalis (Smith, 1907) (Pleonectyptera)
93 0707 H. incusalis (Grote, 1881) (Bomolocha) 8474
subflavidalis (Grote, 1881) (Megachyta)
93 0708 H. parallela (Smith, 1907) (Pleonectyptera) 8475
93 0709 H. rectalis (Smith, 1907) (Pleonectyptera) [NEW]
93 0710 H. immaculalis (Harvey, 1875) (Pleonectyptera) 8476
obliqualis (Edwards, 1886) (Pleonectyptera) [8477]
93 0712 H. trilineosa (Dyar, 1918) (Pleonectyptera) [NEW]

Genus MURSA Hulst, 1896
AGANZAGARA Walker, [1866]
PARAMIMETICA Warren, 1889
SISPUTA Möschler, 1890

93 0713 M. phtisialis (Guenée, 1854) (Physula) [NEW]
calisalis Walker, 1859 (Mursa)
disparatalis (Walker, [1866]) (Aganzagara)

subrufa of authors; (not Warren, 1889) (Paramimetica) misappl.

Genus GLYMPIS Walker, 1859
ECREGMA Walker, 1859

930714 G. concors (Hübner, 1823) (Ophiusa) 8478
agilaria (Druce, 1890) (Metalectra)
flavicapilla (Möschler, 1890) (Diastema)
reniformis (Smith, 1903) (Isogona)
930714.1 G. holothermes Hampson, 1926 (Glympis) [NEW]

Genus SPARGALOMA Grote, 1873

930715 S. sexpunctata Grote, 1873 (Spargaloma) 8479

Genus PHYTOMETRA Haworth, 1809
NANTHILDA Blanchard, 1840
PROTHYMIA Hübner, 1823

930716 P. ernestinana (Blanchard, 1840) (Nanthilda) 8480
coccinifascia (Grote, 1873) (Xanthoptera)
930717 P. rhodarialis (Walker, 1859) (Herminia) 8481
confinisalis (Walker, 1866) (Marimatha)
rosalba (Grote, 1873) (Xanthoptera)
semipurpurea (Walker, 1865) (Anthophila)
930718 P. apicata Barnes & McDunnough, 1916 (Phytometra) 8482
930719 P. obliqualis (Dyar, 1912) (Antarchaea) 8483
curvata Barnes & McDunnough, 1916 (Phytometra)
oma (Dyar, 1912) (Antarchaea)
930720 P. orgiae (Grote, 1875) (Prothymia) 8484
subolivacea (Harvey, 1875) (Prothymia)

Genus NYCHIOPTERA Franclemont, 1966
ID INFO: Franclemont (1966b).

930721 N. noctuidalis (Dyar, 1907) (Pleonectyptera) 8485
930722 N. accola Franclemont, 1966 (Nychioptera) 8486
930723 N. opada Franclemont, 1966 (Nychioptera) 8487
930723.1 N. basipallida (Barnes & McDunnough, 1916) (Oxycilla) 8406

Genus HORMOSCHISTA Möschler, 1890

930724 H. latipalpis (Walker, 1858) (Hydrelia) 8488
pagenstecheri Möschler, 1890 (Hormoschista)

Genus OMMATOCHILA Butler, 1894

930725 O. mundula (Zeller, 1872) (Thalpochares) 8489
lagore (Druce, 1890) (Thalpochares)
orba (Grote, 1877) (Thalpochares)

Genus JANSEODES Viette, 1967

930726 J. melanospila (Guenée, 1852) (Euperia) 8561
aenigmatica (Swinhoe, 1885) (Pasira)
huegeli (Felder & Rogenhofer, 1874) (Caradrina)
melanosticta (Hampson, 1891) (Caradrina)
pallescens (Saalmüller, 1880) (Euperia)
russa (Swinhoe, 1885) (Pasira)

Genus HYPERSTROTIA Hampson, 1910
PROTOCRYPHIA Barnes & McDunnough, 1918

930727 H. nana (Hübner, 1818) (Cryphia) 9035
930728 H. aetheria (Grote, 1879) (Thalpochares) 9036
930729 H. pervertens (Barnes & McDunnough, 1918) (Cryphia) 9037
930730 H. villificans (Barnes & McDunnough, 1918) (Cryphia) 9038
NOTE: Synonymized with *H. nana* by Lafontaine & Schmidt (2015), but raised from synonymy by Schmidt et al. (2018).
930731 H. flaviguttata (Grote, 1882) (Eustrotia) 9039
930732 H. secta (Grote, 1879) (Eustrotia) 9040

Genus ISOGONA Guenée, 1852
DIAPERA Hampson, 1926
EUTOREUMA Grote, 1872
PARORA Smith, 1900

930733 I. natatrix Guenée, 1852 (Isogona) 8492
continua (Walker, 1869) (Pincia)
930734 I. tenuis (Grote, 1872) (Coleophora) 8493
930735 I. texana (Smith, 1900) (Parora) 8494
930736 I. punctipennis (Grote, 1883) (Spargaloma) 8495
acuna Barnes, 1907 (Isogona)
930737 I. segura Barnes, 1907 (Isogona) 8496
930738 I. snowi (Smith, 1908) (Parora) 8497
930739 I. scindens (Walker, 1858) (Ophiusa) 8498
ordinans (Walker, 1858) (Poaphila)

Genus BANDELIA Lindsey, 1923
NOTHOPHILA Barnes & Lindsey, 1922

930740 B. angulata (Barnes & Lindsey, 1922) (Nothophila) 8566

Genus EUAONTIA Barnes & McDunnough, 1910

930741 E. semirufa Barnes & McDunnough, 1910 (Euaontia) 8567
930742 E. clarki Barnes & McDunnough, 1916 (Euaontia) 8568

Genus AGLAONICE Möschler, 1890
METINA Druce, 1890

930743 A. otignatha Hampson, 1924 (Aglaonice) [NEW]
NOTE: Heppner's (2007) report of *A. hirtipalpis* in NA refers to this species (Lafontaine & Schmidt 2010).
hirtipalpis of authors; (not Walker, [1859]) (Bleptina) misid.
otiognatha; [various, no date] (Aglaonice) missp.

Genus ALLERASTRIA Brown, 1987
ID INFO: Brown (1987).

930744 A. albiciliatus (Smith, 1903) (Yrias) 9020
bifasciata (Barnes & McDunnough, 1912) (Eustrotia)
chacoensis Brown, 1987 (Allerastria)
paula Brown, 1987 (Allerastria)
930745 A. annae Brown, 1987 (Allerastria) [NEW]

Genus HOMOCERYNEA Barnes & McDunnough, 1913

930746 H. cleoriformis Barnes & McDunnough, 1913 (Homocerynea) 9027

Genus CECHARISMENA Möschler, 1890
CHIRCONIA Schaus, 1916
DIODINES Schaus, 1916
DURIGA Schaus, 1916
MATILOXIS Schaus, 1916
ZAGORISTA Schaus, 1916

930747 C. cara Möschler, 1890 (Cecharismena) 8530
cubalis (Schaus, 1916) (Matiloxis)
930748 C. nectarea Möschler, 1890 (Cecharismena) 8532
debora (Druce, 1898) (Drobeta)
930749 C. jalapena (Schaus, 1906) (Rhaesena) [NEW]
NOTE: Historical records of *C. abarusalis* are misidentifications that refer to *C. jalapena* (Lafontaine & Schmidt 2010).
abarusalis of authors; (not Walker, 1859) (Bleptina) misid. *[8531]*
930750 C. anartoides (Walker, 1865) (Plusiodonta) 8533
darconis (Schaus, 1913) (Rhaesena)
lea (Druce, 1898) (Drobeta)

Subfamily ANOBINAE Holloway, 2005

Genus BANIANA Walker, 1858

930751 B. minor Lafontaine & Walsh, 2010 (Baniana) [NEW]

Genus DEINOPA Walker, 1856
ASTHANA Walker, 1862
POESULA Walker, 1858
RETHMA Walker, 1866

930752 D. angitia (Druce, 1891) (Neoherminia) [NEW]

Subfamily TOXOCAMPINAE Guenée, 1852

Genus LYGEPHILA Billberg, 1820
ASTICTA Hübner, 1823
TOXOCAMPA Guenée, 1841

93 0753 L. victoria (Grote, 1874) (Toxocampa) 8563

Genus TATHORHYNCHUS Hampson, 1894
TATHORHYNCUS; Bethune-Baker, 1911 missp.

93 0754 T. exsiccata (Lederer, 1855) (Spintherops) I 8466
NOTE: Introduced from Europe to NA (Zahiri et al. 2014).
angustiorata (Grote, 1882) (Platysenta)
greuteri Koutsaftikis, 1973 (Tathorhyncus [sic])
vinctalis (Walker, 1866) (Scopula)

Subfamily EREBINAE [Leach, 1815]

Tribe THERMESIINI Guenée, 1852

Genus HEMEROBLEMMA Hübner, 1818
BLOSYRIS Hübner, 1822
BRUJAS Guenée, 1852
BRUNJIA; Pagenstecher, 1909 missp.
OBUCOLA Walker, 1858
PEOSINA Guenée, 1852
THERMESIA Hübner, 1823

93 0755 H. opigena (Drury, 1773) (Phalaena) 8645
pandrosa (Cramer, [1776]) (Phalaena)
repellens (Walker, 1858) (Lygniodes)
respiciens (Walker, 1858) (Cyclopis)
93 0755.1 H. mexicana (Guenée, 1852) (Peosina) [NEW]

Genus LATEBRARIA Guenée, 1852

93 0756 L. amphipyroides Guenée, 1852 (Latebraria) 8646
errans Walker, 1858 (Latebraria)

Genus LETIS Hübner, 1821
SYRNIA Hübner, 1821

93 0757 L. xylia Guenée, 1852 (Letis) [NEW]
suava Möschler, 1880 (Letis)

Genus THYSANIA Dalman, 1824

93 0758 T. zenobia (Cramer, [1777]) (Attacus) STRAY 8647
93 0758.1E T. agrippina (Cramer, [1775]) (Phalaena) EXCL. 8648
NOTE: The FL record was deemed by Heppner (2007) to be either mislabeled or an accidental introduction.

Genus ASCALAPHA Hübner, 1809
IDECHTHIS Hübner, 1821
OTOSEMA Hübner, 1823

93 0759 A. odorata (Linnaeus, 1758) (Phalaena) 8649
NOTE: This large moth, known as the Black Witch, regularly strays from the tropics as far north as Canada and AK. It appears to breed occasionally in southern TX and FL.
agarista (Cramer, [1777]) (Phalaena)
odora; (Linnaeus, 1764) (Phalaena) missp.

Tribe CATOCALINI Boisduval, [1828]

Genus SPILOLOMA Grote, 1873
STRENOLOMA Grote, 1880

93 0760 S. lunilinea Grote, 1873 (Spiloloma) 8769

Genus CATOCALA Schrank, 1802
ID INFO: Barnes & McDunnough (1918a), Sargent (1976); also Brou (1985), (2003), Hawks (2010), Gall & Hawks (2010; checklist with many nomenclatural changes). Gall & Hawks (2002) also revised the taxonomy of several taxa.
ANDREUSIA; Hampson, 1913 missp.
ANDREWSIA Grote, 1882
ASTIODES; Forster & Wohlfahrt, 1970 missp.
ASTIOTES Hübner, 1823
BLEPHARIDIA Hübner, 1822
BLEPHARONIA Hübner, 1825
CATABAPTA Hulst, 1884
CPRISCE Hübner, 1823
EPHESIA Hübner, 1818
EUCORA Hübner, 1823
EUNETIS Hübner, 1823
HEMIGEOMETRA Haworth, 1809
LAMPROSIA Hübner, 1821
MORMONIA Hübner, 1823

93 0761 C. innubens Guenée, 1852 (Catocala) 8770
flavidalis Grote, 1874 (Catocala)
hinda French, 1881 (Catocala)
innubenta (Strand, 1913) (Catabapta)
scintillans Grote & Robinson, 1866 (Catocala)
93 0762 C. piatrix Grote, 1864 (Catocala) 8771
ssp. a. piatrix Grote, 1864 (Catocala)
ssp. b. dionyza Edwards, 1884 (Catocala)
93 0763 C. consors (Smith, 1797) (Phalaena) 8772
pensacola Reiff, 1919 (Catocala)
sorsconi Barnes & Benjamin, 1924 (Catocala)
93 0764 C. epione (Drury, 1773) (Phalaena) 8773
marginata (Fabricius, 1775) (Noctua)
93 0765 C. muliercula Guenée, 1852 (Catocala) 8774
peramans Hulst, 1884 (Catocala)
93 0766 C. antinympha (Hübner, 1823) (Ephesia) 8775
affinis Westwood, 1837 (Catocala)
melanympha Guenée, 1852 (Catocala)
multoconspicua Reiff, 1919 (Catocala)
paranympha of authors; (not Linnaeus, 1767) (Phalaena) misappl.
93 0767 C. badia Grote & Robinson, 1866 (Catocala) 8777
ssp. a. badia Grote & Robinson, 1866 (Catocala)
ssp. b. coelebs Grote, 1874 (Catocala) [8776]
phoebe Edwards, 1885 (Catocala)
phoebe Hulst, 1884 (Catocala)
93 0768 C. habilis Grote, 1872 (Catocala) 8778
basalis Grote, 1876 (Catocala)
denussa Ehrmann, 1893 (Catocala)
depressans Sargent, 1976 (Catocala)
93 0769 C. robinsonii Grote, 1872 (Catocala) [NEW]
curvata French, 1881 (Catocala)
missouriensis Schwarz, 1915 (Catocala)
robinsoni; Franclemont & Todd, 1983 (Catocala) emend. *[8780]*
93 0769.1 C. myristica Kons & Borth, 2015 (Catocala) [NEW]
93 0770 C. angusi Grote, 1876 (Catocala) 8783
edna Beutenmüller, 1907 (Catocala)
lucetta French, 1882 (Catocala)
93 0771 C. judith Strecker, 1874 (Catocala) 8781
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93 0772 C. serena Edwards, 1864 (Catocala) 8779
93 0773 C. obscura Strecker, 1873 (Catocala) 8784
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simulatilis Grote, 1874 (Catocala)
93 0774 C. residua Grote, 1874 (Catocala) 8785
93 0775 C. flebilis Grote, 1872 (Catocala) 8782
carolina Holland, 1903 (Catocala)
93 0776 C. sappho Strecker, 1874 (Catocala) 8786
cleis Cassino, 1918 (Catocala)
93 0777 C. retecta Grote, 1872 (Catocala) 8788
93 0778 C. luctuosa Hulst, 1884 (Catocala) [NEW]
93 0779 C. ulalume Strecker, 1878 (Catocala) 8789
93 0780 C. dejecta Strecker, 1880 (Catocala) 8790
93 0781 C. insolabilis Guenée, 1852 (Catocala) 8791
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93 0782 C. vidua (Smith, 1797) (Phalaena) 8792
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93 0783 C. lacrymosa Guenée, 1852 (Catocala) 8794
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evelina French, 1881 (Catocala)
paulina Edwards, 1880 (Catocala)
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zelica French, 1881 (Catocala)
93 0784 C. palaeogama Guenée, 1852 (Catocala) 8795
annida Fager, 1882 (Catocala)
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snowiana Grote, 1876 (Catocala)

930785 C. agrippina Strecker, 1874 (Catocala) 8787
barnesi; Franclemont & Todd, 1983 (Catocala) emend.
barnesii French, 1900 (Catocala)
930786 C. atocala Brou, 1985 (Catocala) [NEW]
930787 C. nebulosa Edwards, 1864 (Catocala) 8796
ponderosa Grote & Robinson, 1866 (Catocala)
930788 C. subnata Grote, 1864 (Catocala) 8797
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930789 C. maestosa Hulst, 1884 (Catocala) 8793
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moderna Grote, 1900 (Catocala)
930790 C. neogama (Smith, 1797) (Phalaena) 8798
ssp. a. neogama (Smith, 1797) (Phalaena)
communis Grote, 1872 (Catocala)
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ssp. b. euphemia Beutenmüller, 1907 (Catocala) [8799]
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930791 C. aholibah Strecker, 1874 (Catocala) 8800
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ellenensis Reiff, 1920 (Catocala)
930792 C. ilia (Cramer, [1775]) (Phalaena) 8801
ssp. a. ilia (Cramer, [1775]) (Phalaena)
albomacula Butler, 1892 (Catocala)
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decorata Worthington, 1883 (Catocala)
duplicata Worthington, 1883 (Catocala)
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iliana Strand, 1913 (Catocala)
normani Bartsch, 1916 (Catocala)
obsoleta Worthington, 1883 (Catocala)
satanas Reiff, 1920 (Catocala)
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ssp. b. zoe Behr, 1870 (Catocala)
osculata Hulst, 1884 (Catocala)
reiffi Cassino, 1917 (Catocala)
930793 C. umbrosa Brou, 2003 (Catocala) [NEW]
confusa Worthington, 1883 (Catocala)
930794 C. cerogama Guenée, 1852 (Catocala) 8802
aurella Fischer, 1885 (Catocala)
bunkeri Grote, 1876 (Catocala)
eliza Fischer, 1885 (Catocala)
ruperti Franclemont, 1938 (Catocala)
930795 C. relicta Walker, [1858] (Catocala) 8803
bianca Edwards, 1880 (Catocala)
clara Beutenmüller, 1903 (Catocala)
elda Behrens, 1887 (Catocala)
fischeri Meyer, 1952 (Catocala)
phrynia Edwards, 1880 (Catocala)
930796 C. marmorata Edwards, 1864 (Catocala) 8804
930797 C. unijuga Walker, [1858] (Catocala) 8805
agatha Beutenmüller, 1907 (Catocala)
cassinoi Beutenmüller, 1918 (Catocala)
fletcheri; Franclemont & Todd, 1983 (Catocala) emend.
fletcherii Beutenmüller, 1903 (Catocala)
helena Cassino, 1917 (Catocala)
lucilla Worthington, 1883 (Catocala)
patricia Cassino, 1917 (Catocala)
930798 C. parta Guenée, 1852 (Catocala) 8806
forbesi Franclemont, 1938 (Catocala)
perplexa Strecker, 1873 (Catocala)
petulans Hulst, 1884 (Catocala)
930799 C. irene Behr, 1870 (Catocala) 8807
valeria Edwards, 1880 (Catocala)
virgilia Edwards, 1880 (Catocala)
volumnia Edwards, 1880 (Catocala)
930800 C. luciana Strecker, 1874 (Catocala) 8808
luciana Edwards, 1875 (Catocala)
nebraskae Dodge, 1875 (Catocala)
somnus Dodge, 1881 (Catocala)
930801 C. faustina Strecker, 1873 (Catocala) 8811
ssp. a. faustina Strecker, 1873 (Catocala)
carlota Beutenmüller, 1897 (Catocala)
lydia Beutenmüller, 1907 (Catocala)
rubra Cassino, 1918 (Catocala)
zillah Strecker, 1877 (Catocala)
ssp. b. cleopatra Strecker, 1874 (Catocala) [8810]
NOTE: Relegated to subspecies by Gall & Hawks (1990).
barbara Cassino, 1918 (Catocala)
cleopatra Edwards, 1875 (Catocala)
perdita Edwards, 1875 (Catocala)
perdita Strecker, 1874 (Catocala)
ssp. c. allusa Hulst, 1884 (Catocala) [8809]
NOTE: *Catocala allusa* was relegated to a subspecies of *C. faustina* by Gall & Hawks (2010). However, some authors (e.g., Pacific Northwest Moths 2022) informally treat this taxon as a full species.
caerulea Beutenmüller, 1907 (Catocala)
frenchii Poling, 1901 (Catocala)
930802 C. hermia Edwards, 1880 (Catocala) 8812
ssp. a. hermia Edwards, 1880 (Catocala)
diantha Beutenmüller, 1907 (Catocala)
ritana Beutenmüller, 1918 (Catocala)
rosa Beutenmüller, 1918 (Catocala)
sheba Cassino, 1919 (Catocala) *[8813]*
verecunda Hulst, 1884 (Catocala)
vesta Barnes & McDunnough, 1918 (Catocala)
ssp. b. francisca Edwards, 1880 (Catocala) [8815]
930803 C. californica Edwards, 1864 (Catocala) 8814
edwardsi Kusnezov, 1903 (Catocala)
eldoradensis Beutenmüller, 1907 (Catocala)
elizabeth Beutenmüller, 1907 (Catocala)
erichi Brower, 1976 (Catocala) *[8816]*
mariana Edwards, 1875 (Catocala)
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930804 C. briseis Edwards, 1864 (Catocala) 8817
albida Beutenmüller, 1907 (Catocala)
briseana Strand, 1913 (Catocala)
clarissima Beutenmüller, 1918 (Catocala)
minerva Cassino, 1917 (Catocala)
930805 C. grotiana Bailey, 1879 (Catocala) 8818
georgeana Beutenmüller, 1918 (Catocala)
930806 C. semirelicta Grote, 1874 (Catocala) 8821
ssp. a. semirelicta Grote, 1874 (Catocala)
atala Cassino, 1918 (Catocala)
ssp. b. hippolyta Strecker, 1874 (Catocala) [8823]
hippolyta Edwards, 1875 (Catocala)
montana Beutenmüller, 1907 (Catocala)
nevadensis Beutenmüller, 1907 (Catocala) *[8820]*
nigra Eastman, 1916 (Catocala)
pura Hulst, 1880 (Catocala) *[8819]*
walteri Schwarz, 1923 (Catocala)
930807 C. meskei Grote, 1873 (Catocala) 8822
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concolorata McDunnough, 1932 (Catocala)
krombeini Franclemont, 1938 (Catocala)
mescei; Hampson, 1913 (Catocala) emend.
orion McDunnough, 1922 (Catocala)
rosalinda Edwards, 1880 (Catocala)
930808 C. jessica Edwards, 1877 (Catocala) 8825
babayaga Strecker, 1884 (Catocala) *[8824]*
930809 C. junctura Walker, [1858] (Catocala) 8829
arizonae Grote, 1873 (Catocala) *[8828]*
arizonensis Strand, 1913 (Catocala)
aspasia of authors; not Strecker, 1874 (Catocala) misappl.
augusta Edwards, 1876 (Catocala)
elsa Beutenmüller, 1918 (Catocala) *[8827]*
huachuca Beutenmüller, 1918 (Catocala)
julietta French, 1916 (Catocala)
juncturana Strand, 1913 (Catocala)
juncturella Strand, 1913 (Catocala)
juncturelloides Strand, 1913 (Catocala)
margherita Beutenmüller, 1918 (Catocala)
portia Edwards, 1880 (Catocala)
roseata Cassino, 1919 (Catocala)
sara French, 1883 (Catocala)
sierrae Beutenmüller, 1897 (Catocala)
stretchi; Franclemont & Todd, 1983 (Catocala) emend. *[8826]*
stretchii Behr, 1870 (Catocala)
walshii Edwards, 1864 (Catocala)
930810 C. texanae French, 1902 (Catocala) 8830
texana; Poole, 1989 (Catocala) missp.
930811 C. electilis Walker, 1858 (Catocala) 8831

cassandra Edwards, 1875 (Catocala)
electilella Strand, 1913 (Catocala)
93 0812 C. cara Guenée, 1852 (Catocala) 8832
93 0813 C. carissima Hulst, 1880 (Catocala) [NEW]
sylvia Edwards, 1880 (Catocala)
93 0814 C. concumbens Walker, [1858] (Catocala) 8833
diana Edwards, 1880 (Catocala)
hilli; Franclemont & Todd, 1983 (Catocala) emend.
hillii Grote, 1883 (Catocala)
93 0815 C. amatrix (Hübner, [1813]) (Noctua) 8834
editha Edwards, 1874 (Catocala)
hesseli Sargent, 1976 (Catocala)
nurus Walker, 1858 (Catocala)
pallida Barnes & McDunnough, 1918 (Catocala)
selecta Walker, 1858 (Catocala)
93 0816 C. delilah Strecker, 1874 (Catocala) 8835
adoptiva Grote, 1874 (Catocala)
calphurnia Edwards, 1880 (Catocala)
umbella Barnes & Benjamin, 1927 (Catocala)
93 0817 C. desdemona Edwards, 1881 (Catocala) [NEW]
ixion Druce, 1890 (Catocala)
swetti Barnes & Benjamin, 1927 (Catocala)
umbra Barnes & Benjamin, 1927 (Catocala)
utahensis Cassino, 1918 (Catocala)
93 0818 C. caesia Hawks, 2010 (Catocala) [NEW]
93 0819 C. frederici Grote, 1872 (Catocala) 8837
93 0820 C. benjamini Brower, 1937 (Catocala) [NEW]
ssp. a. benjamini Brower, 1937 (Catocala)
ssp. b. ute Peacock & Wagner, 2009 (Catocala)
ssp. c. jumpi Hawks, 2010 (Catocala)
ssp. d. mayhewi Hawks, 2010 (Catocala)
93 0821 C. andromache Edwards, 1885 (Catocala) 8836
wellsi Johnson, 1983 (Catocala)
93 0822 C. californiensis Brower, 1976 (Catocala) 8862
93 0822.1 C. ventura Borth & Kons, 2016 (Catocala) [NEW]
93 0823 C. johnsoniana Brower, 1976 (Catocala) 8861
93 0824 C. mcdunnoughi Brower, 1937 (Catocala) 8839
browerarum Johnson, 1983 (Catocala)
93 0825 C. chelidonia Grote, 1881 (Catocala) 8838
ssp. a. chelidonia Grote, 1881 (Catocala)
ssp. b. occidentalis Hawks, 2010 (Catocala)
ssp. c. uniforma Hawks, 2010 (Catocala)
93 0826 C. illecta Walker, [1858] (Catocala) 8840
magdalena Strecker, 1874 (Catocala)
93 0827 C. abbreviatella Grote, 1872 (Catocala) 8841
93 0828 C. nuptialis Walker, [1858] (Catocala) 8842
myrrha Strecker, 1874 (Catocala)
93 0829 C. whitneyi Dodge, 1874 (Catocala) 8843
obscura Draudt, 1939 (Catocala)
vhitneyi; Hampson, 1913 (Catocala) emend.
93 0829.1 C. slotteni Kons & Borth, 2016 (Catocala) [NEW]
93 0830 C. amestris Strecker, 1874 (Catocala) 8844
anna Grote, 1874 (Catocala)
westcottii Grote, 1878 (Catocala)
93 0831 C. messalina Guenée, 1852 (Catocala) 8845
belfragiana Harvey, 1875 (Catocala)
jocasta Strecker, 1875 (Catocala)
93 0832 C. sordida Grote, 1877 (Catocala) 8846
engelhardti Lemmer, 1937 (Catocala)
metalomus Mayfield, 1922 (Catocala)
93 0833 C. gracilis Edwards, 1864 (Catocala) 8847
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hesperis Sargent, 1976 (Catocala)
lemmeri Mayfield, 1923 (Catocala)
tela Strand, 1913 (Catocala)
93 0834 C. louiseae Bauer, 1965 (Catocala) 8848
protonympha Boisduval, 1840 (Catocala)
93 0834.1 C. bastropi Kons & Borth, 2017 (Catocala) [NEW]
93 0835 C. andromedae (Guenée, 1852) (Hypogramma) 8849
tristis Edwards, 1864 (Catocala)
93 0836 C. herodias Strecker, 1876 (Catocala) 8850
ssp. a. herodias Strecker, 1876 (Catocala)
ssp. b. gerhardi Barnes & Benjamin, 1927 (Catocala)
93 0837 C. coccinata Grote, 1872 (Catocala) 8851
chiquita Bartsch, 1916 (Catocala)
circe Strecker, 1876 (Catocala)
sinuosa Grote, 1879 (Catocala)
93 0838 C. verrilliana Grote, 1875 (Catocala) 8852
beutenmulleri Barnes & McDunnough, 1910 (Catocala)
verneri; (Hampson, 1913) (Ephesia) emend.
votiva Hulst, 1884 (Catocala)
werneri Biederman, 1909 (Catocala)
93 0839 C. violenta Edwards, 1880 (Catocala) 8853
chiracahua McDunnough, 1938 (Catocala)
chiricahua Poling, 1901 (Catocala)
93 0840 C. ophelia Edwards, 1880 (Catocala) 8854
dolli Beutenmüller, 1907 (Catocala)
93 0841 C. ultronia (Hübner, 1823) (Eunetis) 8857
adriana Edwards, 1880 (Catocala)
celia Edwards, 1880 (Catocala)
lucinda Beutenmüller, 1907 (Catocala)
mopsa Edwards, 1880 (Catocala)
nigrescens Cassino, 1917 (Catocala)
93 0842 C. miranda Edwards, 1881 (Catocala) 8855
93 0843 C. orba Kusnezov, 1903 (Catocala) 8856
93 0844 C. mira Grote, 1876 (Catocala) 8863
dana Cassino, 1918 (Catocala)
93 0845 C. grynea (Cramer, [1779]) (Phalaena) 8864
constans Hulst, 1884 (Catocala)
nuptula Walker, 1858 (Catocala)
polygama Guenée, 1852 (Catocala)
93 0846 C. crataegi Saunders, 1876 (Catocala) 8858
93 0846.1 C. aestivalia Kons & Borth, 2015 (Catocala) [NEW]
93 0847 C. praeclara Grote & Robinson, 1866 (Catocala) 8865
ssp. a. praeclara Grote & Robinson, 1866 (Catocala)
ssp. b. manitoba Beutenmüller, 1908 (Catocala) [8866]
ssp. c. charlottae Brou, 1988 (Catocala)
93 0848 C. alabamae Grote, 1875 (Catocala) 8869
distincta Schwarz, 1919 (Catocala)
olivia Edwards, 1880 (Catocala) [8870]
titania Dodge, 1900 (Catocala) [8868]
93 0849 C. pretiosa Lintner, 1876 (Catocala) [NEW]
ssp. a. pretiosa Lintner, 1876 (Catocala)
ssp. b. texarkana Brower, 1976 (Catocala) [8859]
bridwelli Brower, 1976 (Catocala)
93 0850 C. lincolnana Brower, 1976 (Catocala) 8860
93 0851 C. blandula Hulst, 1884 (Catocala) 8867
manitobensis Cassino, 1918 (Catocala)
93 0852 C. dulciola Grote, 1881 (Catocala) 8871
93 0853 C. clintonii Grote, 1864 (Catocala) [NEW]
clintoni; Franclemont & Todd, 1983 (Catocala) emend.
[8872]
93 0854 C. grisatra Brower, 1936 (Catocala) 8875
93 0855 C. similis Edwards, 1864 (Catocala) 8873
aholah Strecker, 1874 (Catocala)
amasia (Smith, 1797) (Phalaena)
formula Grote & Robinson, 1866 (Catocala)
isabella Edwards, 1880 (Catocala)
93 0856 C. minuta Edwards, 1864 (Catocala) 8874
eureka Schwarz, 1919 (Catocala)
hiseri Cassino, 1918 (Catocala)
mellitula Hulst, 1884 (Catocala)
obliterata Schwarz, 1919 (Catocala)
parvula Edwards, 1864 (Catocala)
93 0857 C. micronympha Guenée, 1852 (Catocala) 8876
atarah Strecker, 1874 (Catocala)
fratercula Grote & Robinson, 1866 (Catocala)
gisela Meyer, 1880 (Catocala)
helene Pilate, 1882 (Catocala)
hero Edwards, 1884 (Catocala)
hero Hulst, 1884 (Catocala)
jacquenetta Edwards, 1880 (Catocala)
jaquenetta McDunnough, 1938 (Catocala)
lolita Sargent, 1976 (Catocala)
ouwah Poling, 1901 (Catocala)
sargenti Covell, 1978 (Catocala)
timandra Edwards, 1880 (Catocala)
93 0858 C. connubialis Guenée, 1852 (Catocala) 8877
broweri Muller, 1960 (Catocala)
cordelia Edwards, 1880 (Catocala)
pulverulenta Brower, 1940 (Catocala)
sancta Hulst, 1884 (Catocala)
virens French, 1886 (Catocala)
93 0859 C. amica (Hübner, 1818) (Ephesia) 8878

androphila Guenée, 1852 (Catocala)
curvifascia Brower, 1936 (Catocala)
melanotica Reiff, 1916 (Catocala)
suffusa Beutenmüller, 1903 (Catocala)

93 0860 C. lineella Grote, 1872 (Catocala) [NEW]
aurantiaca Reiff, 1916 (Catocala)
nerissa Edwards, 1880 (Catocala)
novangliae Reiff, 1916 (Catocala)

93 0861 C. jair Strecker, 1897 (Catocala) 8879

Tribe MELIPOTINI Grote, 1895

Genus PHOBERIA Hübner, 1818
ID INFO: Lafontaine et al. (2008).
LYSSIA Guenée, 1852

93 0862 P. atomaris Hübner, 1818 (Phoberia) 8591
orthosiodes; Richards, 1939 (Phoberia) missp.
orthosioides (Guenée, 1852) (Lyssia)
porrigens (Walker, 1858) (Poaphila)

93 0863 P. ingenua (Walker, 1858) (Poaphila) [NEW]

Genus CISSUSA Walker, 1856
ID INFO: Richards (1939).
ULOSYNEDA Smith, 1903

93 0864 C. spadix (Cramer, [1780]) (Phalaena) 8592
remigipila (Guenée, 1852) (Panula)
vegeta (Morrison, 1875) (Taeniocampa)

93 0865 C. mucronata (Grote, 1883) (Synedoida) 8593

93 0866 C. indiscreta (Edwards, 1886) (Phoberia) 8594
subtermina (Smith, 1900) (Synedoida) *[8595]*

93 0867 C. valens (Edwards, 1881) (Synedoida) 8596
cervina (Edwards, 1882) (Synedoida)
insperata (Grote, 1882) (Synedoida)

Genus LITOCALA Harvey, 1875
ID INFO: Richards (1939).
LITA Harvey, 1875

93 0868 L. sexsignata (Harvey, 1875) (Lita) 8597
ssp. a. sexsignata (Harvey, 1875) (Lita)
ssp. b. deserta Edwards, 1881 (Litocala)

Genus MELIPOTIS Hübner, 1818
ID INFO: Richards (1939); also Troubridge (2020).
CORONTA Walker, 1858
GERESPA Walker, 1858
HELIOTHIS Hübner, 1808
JARASANA Moore, 1882
LYNCESTIS Walker, 1857
MELIOPTIS; Swinhoe, 1900 missp.

93 0869 M. perpendicularis (Guenée, 1852) (Bolina) 8598
disturbans (Walker, 1858) (Bolina)
excepta (Walker, 1858) (Bolina)
glaucipennis (Walker, 1858) (Bolina)
indistincta (Butler, 1878) (Achaea)
limitata (Möschler, 1886) (Bolina)
marmoraris (Guenée, 1852) (Bolina)
sphaerita (Möschler, 1880) (Bolina)
stolida (Walker, 1858) (Bolina)
stygialis Grote, 1878 (Melipotis)

93 0869.1 M. florida Troubridge, 2020 (Melipotis) [NEW]

93 0870 M. fasciolaris (Hübner, 1823) (Aedia) 8599
cunearis (Guenée, 1852) (Bolina)
fuscaris (Guenée, 1852) (Bolina)
illuminans (Walker, 1858) (Bolina)
limitaris (Guenée, 1852) (Bolina)
lunearis; McDunnough, 1938 (Melipotis) missp.

93 0871 M. indomita (Walker, [1858]) (Bolina) 8600
nigrescens (Grote & Robinson, 1866) (Aedia)
ochreifascia (Grote, 1875) (Bolina)
ochreipennis (Harvey, 1875) (Bolina)

93 0872 M. cellaris (Guenée, 1852) (Bolina) 8601
bisinuata (Felder & Rogenhofer, 1874) (Bolina)
insipida (Felder & Rogenhofer, 1874) (Panula)
turbata (Walker, 1858) (Bolina)

93 0873 M. nigrobasis (Guenée, 1852) (Bolina) 8602

93 0874 M. januaris (Guenée, 1852) (Bolina) 8603
argos Druce, 1900 (Melipotis)
excavans (Walker, 1858) (Bolina)
nebulosa (Maassen, 1890) (Bolina)
parcicolor (Herrich-Schäffer, 1868) (Bolina)
rectifascia (Herrich-Schäffer, 1868) (Bolina)
rectifasciata; Wolcott, 1936 (Melipotis) missp.
russaris (Guenée, 1852) (Bolina)
subtilis (Walker, 1858) (Bolina)
surinamensis (Möschler, 1880) (Bolina)

93 0875 M. famelica (Guenée, 1852) (Bolina) 8604
bivittata (Walker, 1858) (Bolina)

93 0876 M. contorta (Guenée, 1852) (Bolina) 8605
bistriga (Walker, 1858) (Bolina)
striolaris (Herrich-Schäffer, 1868) (Bolina)

93 0877 M. prolata (Walker, [1858]) (Gerespa) 8606

93 0878 M. jucunda Hübner, 1818 (Melipotis) 8607
ssp. a. jucunda Behr, 1870 (Melipotis)
versabilis Harvey, 1877 (Melipotis)
ssp. b. hadeniformis (Hübner, 1818) (Bolina)
tetrica (Edwards, 1878) (Cirrhobolina)

93 0879 M. agrotoides (Walker, [1858]) (Bolina) 8608

93 0880 M. novanda (Guenée, 1852) (Bolina) 8609
agrotipennis (Harvey, 1875) (Bolina)

93 0881 M. acontioides (Guenée, 1852) (Bolina) 8610
producta Hayes, 1975 (Melipotis)
sinualis Harvey, 1877 (Melipotis)

Genus IANIUS Richards, 1939
ID INFO: Richards (1939).

93 0882 I. mosca (Dyar, 1910) (Melipotis) 8611

Genus PANULA Guenée, 1852

93 0883 P. inconstans Guenée, 1852 (Panula) 8612
consequens (Walker, 1858) (Poaphila)
contacta (Walker, 1858) (Poaphila)
difficilis (Walker, 1858) (Ophiusa)
narrans (Walker, 1858) (Ophiusa)
olivacea (Walker, 1865) (Alamis)
subordinata (Walker, 1865) (Poaphila)
tetragona (Walker, 1865) (Athyrma)

Genus FORSEBIA Richards, 1935
ID INFO: Richards (1939).
ASYNEDA Richards, 1936

93 0884 F. cinis (Guenée, 1852) (Bolina) [NEW]
aegrota (Edwards, 1884) (Synedoida)
aegrotata; Smith, 1893 (Forsebia) missp.
flavofasicata (Strecker, 1898) (Syneda)
perlaeta (Edwards, 1882) (Melipotis) *[8613]*

Genus BULIA Walker, 1858
ID INFO: Richards (1939), Pogue & Laughlin (2002).
ARSISACA Walker, 1866
BIULA Walker, 1858
BULLIA; Kimball, 1965 missp.
CIRRHBOLINA; Dyar, 1903 missp.
CIRRHOBOLINA Grote, 1875

93 0885 B. deducta (Morrison, 1875) (Syneda) 8614
albina (Strecker, 1900) (Syneda)
incandescens (Grote, 1875) (Cirrhobolina)
mexicana of authors; (not Behr, 1870) (Syneda) misid.
pavitensis (Morrison, 1875) (Syneda)
vulpina (Edwards, 1882) (Cirrhobolina)

93 0886 B. similaris Richards, 1936 (Bulia) 8615
ssp. a. similaris Richards, 1936 (Bulia)
ssp. b. californica Richards, 1939 (Bulia)

93 0887 B. schausi Richards, 1941 (Bulia) [NEW]

93 0887.1 B. mexicana (Behr, 1870) (Syneda) [NEW]
NOTE: Previous NA records are thought to be misidentified *B. deducta*, but this species was reported from TX in 2007 and 2010 in the 2015 Season Summary of the Lepidopterists' Society (2016).

Genus DRASTERIA Hübner, 1818
ID INFO: Richards (1939); also Mustelin (2006), Metlevski & Zolnerowich (2009).
NOTE: The species groups of Richards (1939) are not recognized here, as new taxa described since then have not been placed within them.
SYNEDA Guenée, 1852
SYNEDOIDA Edwards, 1878

93 0888 D. mirifica (Edwards, 1878) (Syneda) 8616
perpallida (Edwards, 1881) (Syneda)
93 0889 D. hastingsii (Edwards, 1878) (Syneda) [NEW]
ssp. a. hastingsii (Edwards, 1878) (Syneda)
ssp. b. klotsi Edwards, 1878 (Drasteria)
93 0890 D. eubapta Hampson, 1926 (Drasteria) 8617
93 0891 D. graphica Hübner, 1818 (Drasteria) 8618
ssp. a. graphica Hübner, 1818 (Drasteria)
capiticola (Walker, 1858) (Euclidia)
faceta (Edwards, 1881) (Syneda)
media (Morrison, 1875) (Syneda)
ssp. b. atlantica Barnes & McDunnough, 1918 (Drasteria)
93 0892 D. occulta (Edwards, 1881) (Syneda) 8619
93 0893 D. ingeniculata (Morrison, 1876) (Syneda) 8620
93 0894 D. scrupulosa (Edwards, 1878) (Synedoida) 8621
93 0895 D. inepta (Edwards, 1881) (Synedoida) 8622
morbosa (Edwards, 1881) (Synedoida)
violescens (Hampson, 1926) (Syneda)
93 0896 D. sabulosa (Edwards, 1881) (Synedoida) 8623
ssp. a. sabulosa (Edwards, 1881) (Synedoida)
ssp. b. abrupta (Barnes & McDunnough, 1918) (Syneda)
garthi Richards, 1939 (Drasteria)
nichollae (Hampson, 1926) (Syneda) *[8624]*
93 0897 D. biformata (Edwards, 1878) (Synedoida) 8625
93 0898 D. ochracea (Behr, 1870) (Syneda) 8626
93 0899 D. edwardsii (Behr, 1870) (Syneda) [NEW]
edwardsi; (Franclemont & Todd, 1983) (Synedoida) emend. *[8627]*
93 0900 D. pallescens (Grote & Robinson, 1866) (Aedia) 8628
tenella (Edwards, 1881) (Melipotis)
93 0901 D. fumosa (Strecker, 1898) (Syneda) 8629
ssp. a. fumosa (Strecker, 1898) (Syneda)
ssp. b. brunneifasciata (Barnes & McDunnough, 1916) (Melipotis)
93 0902 D. divergens (Behr, 1870) (Syneda) 8630
socia (Behr, 1870) (Syneda)
93 0903 D. convergens Mustelin, 2006 (Drasteria) [NEW]
93 0903.1 D. parallela Crabo & Mustelin, 2013 (Drasteria) [NEW]
paralella; [Pohl], 2016 (Drasteria) missp.
93 0904 D. walshi Metlevski, 2009 (Drasteria) [NEW]
93 0905 D. petricola (Walker, 1858) (Euclidia) 8631
ssp. a. petricola (Walker, 1858) (Euclidia)
ssp. b. athabasca (Neumoegen, 1883) (Syneda)
crockeri; Richards, 1936 (Drasteria) missp.
crokeri (Barnes & Benjamin, 1924) (Syneda)
93 0906 D. hudsonica (Grote & Robinson, 1865) (Syneda) 8632
ssp. a. hudsonica (Grote & Robinson, 1865) (Syneda)
ssp. b. heathi (Barnes & McDunnough, 1918) (Syneda)
pedionis (Hampson, 1926) (Syneda)
ssp. c. seposita (Edwards, 1881) (Syneda)
93 0908 D. maculosa (Behr, 1870) (Syneda) 8634
nubicola (Behr, 1870) (Syneda) *[8633]*
93 0909 D. perplexa (Edwards, 1884) (Syneda) 8635
93 0910 D. adumbrata (Behr, 1870) (Syneda) 8636
ssp. a. adumbrata (Behr, 1870) (Syneda)
ssp. b. alleni (Grote, 1877) (Syneda)
ssp. c. saxea (Edwards, 1881) (Syneda)
93 0911 D. stretchii (Behr, 1870) (Syneda) 8637
93 0912 D. pulchra (Barnes & McDunnough, 1918) (Syneda) 8638
93 0913 D. howlandii (Grote, 1865) (Syneda) [NEW]
decepta (Strecker, 1898) (Syneda)
exquisita (Hampson, 1926) (Syneda)
howlandi; (Franclemont & Todd, 1983) (Synedoida) emend. *[8639]*
nigromarginata (Strecker, 1898) (Syneda)
perfecta (Edwards, 1884) (Syneda)
tejonica (Behr, 1870) (Syneda) *[8640]*
93 0915 D. grandirena (Haworth, 1809) (Phytometra) 8641
limbolaris (Geyer, 1832) (Aedia)

Genus BORYZOPS Richards, 1936
ID INFO: Richards (1939).

93 0916 B. purissima (Dyar, 1910) (Iscadia) 8643
ciocolatina (Draudt, 1939) (Sebagena)

Genus ORODESMA Herrich-Schäffer, 1868
ID INFO: Richards (1939).
BORYZOLA Hampson, 1926
LOIS Dyar, 1924
MEGASTOPOLIA Hampson, 1918
ORODESMIA; Wolcott, 1923 missp.
POLIOTHRIPA Hampson, 1912

93 0917 O. apicina Herrich-Schäffer, 1868 (Orodesma) 8644
juanita (Schaus, 1894) (Catocala)
lorina (Druce, 1890) (Polia)
nigrosparsata (Draudt & Gaede, 1944) (Boryzola)
obliqua Todd, 1964 (Orodesma)

Tribe OMMATOPHORINI Guenée, 1852

Genus CALYPTIS Guenée, 1852

93 0917.5 C. idonea (Stoll, in: Cramer, [1782] 1780) (Phalaena) STRAY [NEW]
NOTE: Added to the NA fauna based on a specimen collected in AZ by Charles Melton in 2021. *Calyptis idonoides* is an unnecessary replacement name.
idonoides Poole, 1989 (Calyptis)

Tribe EUCLIDIINI Guenée, 1852

Genus CALLISTEGE Hübner, 1823
EUCLIDIMERA Hampson, 1913

93 0918 C. intercalaris (Grote, 1882) (Euclidia) 8740
dyari (Smith, 1903) (Euclidia)
93 0919 C. diagonalis (Dyar, 1898) (Euclidia) 8741
93 0920 C. triangula (Barnes & McDunnough, 1918) (Caenurgia) 8742

Genus CAENURGINA McDunnough, 1937

93 0921 C. annexa (Edwards, 1890) (Euclidia) 8735
conspicua (Smith, 1900) (Drasteria)
93 0922 C. caerulea (Grote, 1873) (Drasteria) 8736
aquamarina (Felder & Rogenhofer, 1874) (Euclidia)
livida (Letcher, 1896) (Drasteria)
93 0923 C. crassiuscula (Haworth, 1809) (Phytometra) 8738
distincta (Neumoegen, 1883) (Drasteria) *[8737]*
erichto (Guenée, 1852) (Drasteria)
erictho; Edwards, 1876 (Caenurgina) missp.
impressa (Butler & Druce, 1872) (Remigia)
ochrea (Grote, 1873) (Drasteria)
sobria (Walker, 1858) (Microphysa)
93 0924 C. erechtea (Cramer, [1780]) (Phalaena) 8739
agricola (Grote & Robinson, 1867) (Drasteria)
mundula (Grote & Robinson, 1867) (Drasteria)
narrata (Walker, 1858) (Poaphila)
parva (Blackmore, 1921) (Caenurgia)
patibilis (Walker, 1858) (Poaphila)

Genus DORYODES Guenée, 1857
ID INFO: Lafontaine & Sullivan (2015); also Troubridge (2020).
THEMMA Walker, 1863
TUNZA Walker, 1865

93 0925 D. bistrialis (Geyer, 1832) (Agriphila) 8765
acutalis; Walker, 1859 (Doryodes) emend.
acutaria (Herrich-Schäffer, 1852) (Ligia)
93 0925.1 D. desoto Lafontaine & Sullivan, 2015 (Doryodes) [NEW]
93 0925.15 D. fulva Troubridge, 2020 (Doryodes) [NEW]
93 0925.2 D. okaloosa Sullivan & Lafontaine, 2015 (Doryodes) [NEW]
93 0927 D. spadaria Guenée, [1858] (Doryodes) 8767
divisa (Walker, 1863) (Themma)
grandipennis Barnes & McDunnough, 1918 (Doryodes) *[8766]*
promptella (Walker, 1863) (Tunza)
93 0927.1 D. fusselli Sullivan & Lafontaine, 2015 (Doryodes) [NEW]
93 0927.15 D. acta Troubridge, 2020 (Doryodes) [NEW]
93 0927.2 D. latistriga Sullivan & Lafontaine, 2015 (Doryodes) [NEW]
93 0927.25 D. unica Troubridge, 2020 (Doryodes) [NEW]
93 0927.3 D. broui Lafontaine & Sullivan, 2015 (Doryodes) [NEW]

930927.4 D. reineckei Sullivan & Lafontaine, 2015 (Doryodes) [NEW]
930928 D. tenuistriga Barnes & McDunnough, 1918 (Doryodes) 8768

Genus EUCLIDIA Ochsenheimer, 1816
ID INFO: Franclemont (1957).
ECTYPA Billberg, 1820
EUCLIDINA McDunnough, 1937

930929 E. cuspidea (Hübner, 1818) (Drasteria) 8731
930930 E. ardita Franclemont, 1957 (Euclidia) 8732

Genus PTICHODIS Hübner, 1818
PTICHODES; Poole, 1989 missp.

930931 P. vinculum (Guenée, 1852) (Phurys) 8749
930932 P. herbarum (Guenée, 1852) (Poaphila) 8750
bifasciata (Bates, 1886) (Celiptera)
dissocians (Walker, 1858) (Poaphila)
lima (Guenée, 1852) (Phurys)
obversa (Walker, 1858) (Poaphila)
930933 P. immunis (Guenée, 1852) (Phurys) [NEW]
NOTE: Reported by Dickel (1991) in FL as a stray. Now reported from FL, TX and GA (contributed by JDY).
tussia (Guenée, 1852) (Phurys)
930934 P. bistrigata Hübner, 1818 (Ptichodis) 8751
930935 P. pacalis (Walker, 1858) (Poaphila) 8752
irrorata (Grote, 1878) (Poaphila)
930936 P. ovalis (Grote, 1883) (Phurys) 8753
monaxa (Schaus, 1901) (Phurys)
930937 P. bucetum (Grote, 1883) (Celiptera) 8754
campanilis (Smith, 1905) (Phurys)

Genus CAENURGIA Walker, 1858
LITOSEA Grote, 1875

930938 C. chloropha (Hübner, 1818) (Xestia) 8733
convalescens (Guenée, 1852) (Drasteria)
purgata Walker, 1858 (Caenurgia)
socors Walker, 1858 (Caenurgia)
930939 C. togataria (Walker, 1862) (Anaitis) 8734
adversa (Grote, 1875) (Litosea)

Genus CELIPTERA Guenée, 1852
LITOMITUS Grote, 1864
PARACELIPTERA Draudt, 1940

930940 C. frustulum Guenée, 1852 (Celiptera) 8747
discissa (Walker, 1865) (Remigia)
elongatus (Grote, 1864) (Litomitus)
930941 C. valina (Schaus, 1901) (Mocis) 8748

Genus MOCIS Hübner, 1823
BARATHA Walker, 1865
CAUNINDA Moore, 1885
PELAMIA Guenée, 1852
PELOMIA; Warren, 1913 missp.
REMIGIA Guenée, 1852

930942 M. latipes (Guenée, 1852) (Remigia) 8743
collata (Walker, 1865) (Remigia)
delinquens (Walker, 1858) (Ophiusa)
exscindens (Walker, 1858) (Remigia)
indentata (Harvey, 1875) (Remigia)
subtilis (Walker, 1858) (Remigia)
930943 M. marcida (Guenée, 1852) (Remigia) 8744
perlata (Walker, 1858) (Phurys)
930944 M. texana (Morrison, 1875) (Remigia) 8745
hexastylus (Harvey, 1875) (Remigia)
930945 M. disseverans (Walker, 1858) (Remigia) 8746
acuta (Walker, 1865) (Baratha)
persubtilis (Walker, 1858) (Remigia)
930946 M. cubana Hampson, 1913 (Mocis) [NEW]

Tribe POAPHILINI Guenée, 1852

Genus ARGYROSTROTIS Hübner, 1821
ID INFO: Sullivan & Lafontaine (2011).
AGNOMONIA Hübner, 1831
CROCHIPHORA Hübner, 1831
POAPHILA Guenée, 1852

930951 A. flavistriaria (Hübner, [1831]) (Crochiphora) 8759
carolina (Smith, 1905) (Phurys) *[8758]*
contempta (Guenée, 1852) (Poaphila) *[8756]*
diffundens (Walker, 1858) (Mocis) *[8757]*
glans (Grote, 1876) (Phurys)
herbicola (Guenée, 1852) (Poaphila) *[8755]*
perplexa (Guenée, 1852) (Poaphila)
perspicua (Walker, 1858) (Poaphila)
930952 A. sylvarum (Guenée, 1852) (Poaphila) 8760
930953 A. erasa (Guenée, 1852) (Poaphila) 8761
930954 A. quadrifilaris (Hübner, [1831]) (Agnomonia) 8762
obsoleta (Grote, 1875) (Poaphila)
930955 A. deleta (Guenée, 1852) (Poaphila) 8763
placata (Grote, 1878) (Poaphila)
930956 A. anilis (Drury, 1773) (Phalaena) 8764
bilinearis (Martyn, 1797) (Phalaena)
sequistriaris (Hübner, 1831) (Agnomonia)
sesquistriaris; (Franclemont & Todd, 1983) (Agnomonia) missp.

Genus GONDYSIA Berio, 1955
ID INFO: Sullivan (2010), Sullivan & Legrain (2011, 2013).
NEADYSGONIA Sullivan, 2010

930957 G. similis (Guenée, 1852) (Ophiusa) 8725
apicalis (Guenée, 1852) (Ophiusa)
concolor (Grote, 1893) (Grammodes)
930958 G. consobrina (Guenée, 1852) (Ophiusa) 8724
pertorrida Berio, 1955 (Gondysia)
redditura (Walker, 1858) (Ophiusa)
930959 G. smithii (Guenée, 1852) (Ophiusa) 8726
930960 G. telma (Sullivan, 2010) (Neadysgonia) [NEW]

Genus PARALLELIA Hübner, 1818

930961 P. bistriaris Hübner, 1818 (Parallelia) 8727
amplissima (Walker, 1858) (Poaphila)

Genus ALLOTRIA Hübner, 1823

930962 A. elonympha (Hübner, 1818) (Ephesia) 8721

Genus CUTINA Walker, 1866
ID INFO: Pogue & Ferguson (1998).

930963 C. albopunctella Walker, 1866 (Cutina) 8728
strigulataria (Smith, 1900) (Erastria)
930964 C. distincta (Grote, [1883] 1882) (Eustrotia) 8729
inquieticolor (Dyar, 1922) (Taseopteryx)
930965 C. aluticolor Pogue & Ferguson, 1998 (Cutina) [NEW]
930966 C. arcuata Pogue & Ferguson, 1998 (Cutina) [NEW]

Genus FOCILLIDIA Hampson, 1913

930967 F. texana Hampson, 1913 (Focillidia) 8730
brunnior Strand, 1917 (Focillidia)
930968 F. grenadensis Hampson, 1913 (Focillidia) [NEW]

Genus OPHISMA Guenée, 1852

930968.5 O. tropicalis Guenée, 1852 (Ophisma) 8722
ardosiata Draudt, 1940 (Ophisma)
bilineata Draudt, 1940 (Ophisma)
confundens Walker, 1858 (Ophisma)
crocimacula Guenée, 1852 (Ophisma)
detrahens Walker, 1858 (Ophisma)
dimidiata Draudt, 1940 (Ophisma)
fugiens Walker, 1858 (Ophisma)
luteiplaga Walker, 1858 (Ophisma)
morbillosa Felder & Rogenhofer, 1874 (Ophisma)
stigmatifera Walker, 1858 (Ophisma)

Genus MIMOPHISMA Hampson, 1926

930968.6 M. forbesi Schaus, 1940 (Mimophisma) [NEW]
930968.65 M. delunaris (Guenée, 1852) (Ophisma) 8723

Genus ACHAEA Hübner, [1823]
GERIA Walker, 1858

930968.7 A. ablunaris (Guenée, 1852) (Ophisma) STRAY [NEW]
hilaris (Möschler, 1890) (Ophisma)
indistincta (Walker, 1865) (Remigia)
restituta (Walker, 1858) (Geria)

Tribe OMOPTERINI Boisduval, 1833

Genus TYRISSA Walker, 1866

930969 T. multilinea Barnes & McDunnough, 1913 (Tyrissa) 8650
930969.1 T. recurva Walker, 1866 (Tyrissa) [NEW]

Genus LESMONE Hübner, 1818
AZATHA Walker, 1858
BENDIS Hübner, 1823
LEPIDOTRAMA Cockerell, 1903
TRAMA Harvey, 1875

930970 L. detrahens (Walker, 1858) (Poaphila) 8651
arrosa (Harvey, 1875) (Trama)
930970.1 L. aenaria (Druce, 1890) (Bendis) [NEW]
lampea (Druce, 1890) (Metalectra)
930971 L. fufius (Schaus, 1894) (Bendis) 8652
930972 L. hinna (Geyer, 1837) (Acolasia) 8653
pulverosa (Walker, 1865) (Poaphila)
930973 L. griseipennis (Grote, 1882) (Trama) 8654
930974 L. formularis (Geyer, 1837) (Bendis) 8655
fusifascia (Walker, 1858) (Bendis)
impar (Guenée, 1852) (Bendis)
postica (Walker, 1865) (Ephyrodes)
umbrata (Walker, 1865) (Zethes)

Genus EPIDROMIA Guenée, 1852
ID INFO: Lafontaine & Dickel (2008).

930975 E. lienaris (Hübner, 1823) (Hemeroblemma) [NEW]
profana (Walker, 1858) (Ophiusa)
NOTE: The synonym *profana* was placed here by Lafontaine & Dickel (2008) although they did not indicate that it was a new combination therein; it was previously placed as a synonym of *E. poaphiloides* (contributed by SRN).
930976 E. pannosa Guenée, 1852 (Epidromia) [NEW]
poaphiloides of authors; (not Guenée, 1852) (Bendis) misappl. *[8585]*
930977 E. rotundata Herrich-Schäffer, 1869 (Epidromia) [NEW]
fergusoni Solis, 1986 (Epidromia)

Genus ITOMIA Hübner, 1823
PSEUDOBENDIS Butler, 1896

930978 I. opistographa Guenée, 1852 (Itonia [sic]) [NEW]

Genus BENDISODES Hampson, 1924

930979 B. aeolia (Druce, 1890) (Isogona) 8656

Genus HELIA Hübner, 1818

930980 H. agna (Druce, 1890) (Selenis) 8657

Genus SELENISA Hayward, 1967
SELENIS Guenée, 1852

930981 S. sueroides (Guenée, 1852) (Selenis) 8658
monotropa (Grote, 1876) (Selenis)

Genus HETERANASSA Smith, 1899
ID INFO: Homziak et al. (2015).

930982 H. mima (Harvey, 1876) (Homoptera) 8659
fraterna (Smith, 1899) (Campometra) *[8661]*
minor (Smith, 1899) (Campometra) *[8660]*

Genus ELOUSA Walker, 1858
MASEBIA Walker, 1858

930984 E. albicans Walker, [1858] (Elousa) STRAY [NEW]
famelica (Walker, 1858) (Masebia)

Genus COXINA Guenée, 1852

930985 C. cinctipalpis (Smith, 1899) (Campometra) 8662
930986 C. hadenoides Guenée, 1852 (Coxina) [NEW]
dianthoecioides Guenée, 1852 (Coxina)
hadenioides; [various, no date] (Coxina) missp.

Genus EUCLYSTIS Hübner, 1823
EUCLISTIS; Hübner, 1826 missp.
FOCILLA Guenée, 1852
GALAPHA Walker, 1858

930987 E. sytis (Guenée, 1852) (Focilla) 8663
sublineata (Walker, 1865) (Hypernaria)
930988 E. guerini (Guenée, 1852) (Focilla) 8664
930989 E. insana (Guenée, 1852) (Amphigonia) [NEW]
ageta (Druce, 1890) (Galapha)
bendina (Felder & Rogenhofer, 1874) (Focilla)
vulgaris (Schaus, 1911) (Focilla)

Genus COENIPETA Hübner, 1818
ACOLASIS Hübner, 1821

930990 C. bibitrix (Hübner, 1823) (Helia) 8665
glaucescens Walker, 1866 (Coenipeta)
meskei (Edwards, 1882) (Eubolina)
930991 C. medina Guenée, 1852 (Caenipeta [sic]) [NEW]
saxosa Walker, 1858 (Coenipeta)

Genus METRIA Hübner, 1823
CAMPOMETRA Guenée, 1852
PLACONIA Möschler, 1880
RHUBINA; Hampson, 1913 missp.
RHUBUNA Walker, 1858
SAFIA Guenée, 1852
YRIAS Guenée, 1852

930992 M. amella (Guenée, 1852) (Campometra) 8666
distilla (Dyar, 1913) (Campometra)
integerrima (Walker, 1858) (Homoptera)
stylobata (Harvey, 1876) (Homoptera)
930993 M. bilineata (Smith, 1899) (Campometra) 8667
930994 M. celia (Stoll, in: Cramer, [1781]) (Phalaena) 8668

Genus KAKOPODA Smith, 1900
MERIDYRIAS Hampson, 1926

930995 K. progenies (Guenée, 1852) (Yrias) [NEW]
cincta Smith, 1900 (Kakopoda) *[8669]*

Genus TOXONPRUCHA Möschler, 1890
ID INFO (partial): Troubridge (2020).
SYNYRIAS Hampson, 1926

930996 T. pardalis (Smith, 1908) (Yrias) 8670
930997 T. strigalis (Smith, 1903) (Yrias) 8671
930998 T. volucris (Grote, 1883) (Yrias) 8672
ssp. a. volucris (Grote, 1883) (Yrias)
ssp. b. terminalis (Smith, 1907) (Yrias)
930999 T. repentis (Grote, 1881) (Homopyralis) 8673
931000 T. excavata (Walker, 1865) (Homoptera) [NEW]
NOTE: Reported from NA (TX) by Knudson & Bordelon (2004) under the name *T. diffundens*. Its identity was clarified by Lafontaine & Schmidt (2015).
amoena Möschler, 1890 (Toxonprucha)
diffundens of authors; (not Walker, 1858) (Celaena) misid.
minuscula (Walker, 1865) (Homoptera)
931000.1 T. scitior (Walker, 1865) (Homoptera) [NEW]
931001 T. crudelis (Grote, 1882) (Yrias) 8674
931002 T. clientis (Grote, 1882) (Yrias) 8675
931003 T. psegmapteryx (Dyar, 1913) (Matigramma) 8676
931003.1 T. killamae Troubridge, 2020 (Toxonprucha) [NEW]

Genus ZALEOPS Hampson, 1926

931004 Z. umbrina (Grote, 1883) (Pheocyma) 8677
paresa (Smith, 1906) (Campometra)
paressa; Franclemont & Todd, 1983 (Zaleops) missp. *[8678]*
protea (Smith, 1906) (Campometra)

Genus MATIGRAMMA Grote, 1872
ID INFO: Franclemont (1986a).

931006 M. pulverilinea Grote, 1872 (Matigramma) 8679
931007 M. obscurior Franclemont & Todd, 1983 (Matigramma) [NEW]
NOTE: The name *Matigramma laena* ab. *obscurior* Strand, [1917] is unavailable because it was described for an infrasubspecific form (aberration). When Franclemont & Todd (in Hodges et al. 1983) listed it as a valid species, they validated it and thus became the authors of the name.
obscurior Strand, [1917] (Matigramma) unavail. [8681]
931008 M. repentina Franclemont, 1986 (Matigramma) [NEW]
931008.1 M. necopina Franclemont, 1986 (Matigramma) [NEW]
NOTE: This species, described from Mexico, has been discovered recently in TX, collected by Jan Metlevski and Anne Hendrickson and reported in the 2020 Season Summary of the Lepidopterists' Society (2021) (contributed by Jan Metlevski).
931009 M. rubrosuffusa Grote, 1882 (Matigramma) 8680
laena Grote, 1882 (Matigramma)
931010 M. inopinata Franclemont, 1986 (Matigramma) [NEW]
931011 M. emmilta Franclemont, 1986 (Matigramma) [NEW]
931012 M. adoceta Franclemont, 1986 (Matigramma) [NEW]

Genus ACRITOGRAMMA Franclemont, 1986
ID INFO: Franclemont (1986a).

931013 A. metaleuca (Hampson, 1913) (Matigramma) 8682
931014 A. noctar (Schaus, 1901) (Yrias) [NEW]

Genus PSEUDANTHRACIA Grote, 1874

931015 P. coracias (Guenée, 1852) (Anthracia) 8683
cinerea (Morrison, 1875) (Homoptera)
cornix (Guenée, 1852) (Anthracia)

Genus ZALE Hübner, 1818
ID INFO: Smith (1908); also Troubridge (2020).
LEMUR Hübner, 1808
NEPHELINA Kirby, 1897
OMOPTERA Guérin-Méneville, 1832
PHAEOCYMA Hübner, 1818
XYLIS Guenée, 1852
YPSIA Guenée, 1852

931016 Z. exhausta (Guenée, 1852) (Homoptera) 8684
privata (Walker, 1865) (Homoptera)
vernifera (Walker, 1858) (Homoptera)
931017 Z. peruncta (Guenée, 1852) (Homoptera) [NEW]
aemona (Druce, 1889) (Homoptera)
incipiens (Walker, 1858) (Letis)
ustipennis (Walker, [1858]) (Homoptera)
931018.1 Z. vargoi Troubridge, 2020 (Zale) [NEW]
NOTE: Listed as an undescribed *Zale* species near *viridans* by Lafontaine & Schmidt (2010); described as a new species by Troubridge (2020). It has also been historically misidentified as *Z. strigimacula*.
viridans of authors; (not Guenée, 1852) (Homoptera) misappl. [8685]
931019 Z. strigimacula (Guenée, 1852) (Homoptera) 8686
NOTE: Removed from the NA list by Lafontaine & Schmidt (2015), and then reinstated by Schmidt et al. (2018). "True" *Z. strigimacula* is known from southern TX, and is not the same species previously referred to as *Z. strigimacula*; see note under *Z. vargoi*.
erilda Schaus, 1940 (Zale)
931020.1 Z. lafontainei Troubridge, 2020 (Zale) [NEW]
NOTE: This species, described by Troubridge (2020), was first reported from NA (TX) by Knudson & Bordelon (2004), and from FL by Heppner (2007), under the name *Z. obsita*, a South American species.
obsita of authors; (not Guenée, 1852) (Homoptera) misappl.
931021 Z. fictilis (Guenée, 1852) (Homoptera) 8687
gradata (Walker, 1858) (Homoptera)
guadulpensis (Guenée, 1852) (Homoptera)
posterior (Walker, 1858) (Homoptera)
terrosa (Guenée, 1852) (Homoptera)
931022 Z. sabena (Schaus, 1901) (Homoptera) 8688
albovariegata Draudt, 1940 (Zale)
931023 Z. lunata (Drury, 1773) (Phalaena) 8689
ssp. a. lunata (Drury, 1773) (Phalaena)
edusa (Drury, 1773) (Phalaena)
lunatoides Strand, 1917 (Zale)
putrescens (Guérin-Méneville, 1832) (Erebus)
saundersi; Franclemont & Todd, 1983 (Zale) emend.
saundersii (Bethune, 1865) (Homoptera)
ssp. b. salicis (Behr, 1870) (Homoptera)
rosae (Behr, 1870) (Homoptera)
931024 Z. smithi Haimbach, 1928 (Zale) 8690
sexplagiata of authors; (not Walker, 1858) (Homoptera) misappl.
931025 Z. declarans (Walker, [1858]) (Homoptera) 8691
uniformis (Morrison, 1875) (Homoptera)
931026 Z. galbanata (Morrison, 1876) (Homoptera) 8692
lineosa of authors; (not Walker, 1858) (Homoptera) misappl.
penna (Morrison, 1876) (Homoptera)
931027 Z. edusina (Harvey, 1875) (Homoptera) 8693
atritincta (Harvey, 1875) (Homoptera)
edusinoides Strand, 1917 (Zale)
931028 Z. chisosensis Blanchard & Franclemont, 1982 (Zale) [NEW]
931029 Z. aeruginosa (Guenée, 1852) (Ypsia) 8694
nigrior Strand, 1917 (Zale)
plenipennis (Walker, 1858) (Homoptera)
931030 Z. undularis (Drury, 1773) (Phalaena) 8695
albosquamulata Strand, 1917 (Zale)
nigricans (Bethune, 1865) (Homoptera)
umbripennis (Grote, 1876) (Ypsia)
931031 Z. insuda (Smith, 1908) (Phaeocyma) 8696
931032 Z. minerea (Guenée, 1852) (Homoptera) 8697
ssp. a. minerea (Guenée, 1852) (Homoptera)
albofasciata (Bethune, 1865) (Homoptera)
involuta (Walker, 1858) (Homoptera)
lineosa (Walker, 1858) (Homoptera)
minereoides Strand, 1917 (Zale)
ssp. b. norda (Smith, 1908) (Phaeocyma)
mexicana Haimbach, 1928 (Zale)
minereana Strand, 1917 (Zale)
minereella Strand, 1917 (Zale)
931032.1 Z. clandestina Troubridge, 2020 (Zale) [NEW]
931033 Z. phaeocapna Franclemont, 1950 (Zale) 8698
931034 Z. obliqua (Guenée, 1852) (Homoptera) 8699
931035 Z. squamularis (Drury, 1773) (Phalaena) 8700
lapidaria Haimbach, 1928 (Zale)
931036 Z. confusa McDunnough, 1940 (Zale) 8701
931037 Z. submediana Strand, 1917 (Zale) 8702
lemmeri McDunnough, 1943 (Zale)
931038 Z. duplicata (Bethune, 1865) (Homoptera) 8703
benesignata (Harvey, 1875) (Homoptera)
franclemonti McDunnough, 1943 (Zale)
largera (Smith, 1908) (Phaeocyma)
931039 Z. helata (Smith, 1908) (Phaeocyma) 8704
ruperti McDunnough, 1943 (Zale)
931040 Z. bethunei (Smith, 1908) (Phaeocyma) 8705
931041 Z. buchholzi McDunnough, 1943 (Zale) 8706
931042 Z. metatoides McDunnough, 1943 (Zale) 8707
931043 Z. metata (Smith, 1908) (Phaeocyma) 8708
931044 Z. curema (Smith, 1908) (Phaeocyma) 8709
931045 Z. rubiata (Smith, 1908) (Phaeocyma) 8710
931046 Z. rubi (Edwards, 1881) (Homoptera) 8711
931047 Z. termina (Grote, 1883) (Phaeocyma) 8712
yavapai (Smith, 1908) (Phaeocyma)
931048 Z. lunifera (Hübner, 1818) (Phaeocyma) 8713
cingulifera (Walker, [1858]) (Homoptera)
931049 Z. intenta (Walker, 1858) (Homoptera) [NEW]
dealbata Strand, 1917 (Zale)
woodi; Franclemont & Todd, 1983 (Zale) emend.
woodii (Grote, 1877) (Homoptera)
931050 Z. calycanthata (Smith, 1797) (Phalaena) 8714
931051 Z. colorado (Smith, 1908) (Phaeocyma) 8715
931052 Z. unilineata (Grote, 1876) (Homoptera) 8716
purpureobrunnea Strand, 1917 (Zale)
931053 Z. horrida Hübner, 1819 (Zale) 8717
931054 Z. perculta Franclemont, 1964 (Zale) 8718
931054.1e Z. meriata (Martyn, 1797) (Phalaena) EXCL.; nom. dub. [NEW]
NOTE: This is an unrecognized species. TL: USA: GA.

Genus EUPARTHENOS Grote, 1876
CATOCALIRRHUS Andrews, 1877
PARTHENOS Hübner, 1823

931055 E. nubilis (Hübner, 1823) (Parthenos) 8719
ssp. a. nubilis (Hübner, 1823) (Parthenos)

fasciata (Beutenmüller, 1907) ([unknown])
unilineata Chermock & Chermock, 1940 (Euparthenos)
ssp. b. apache (Poling, 1901) (Parthenos)
ssp. c. osiris Barnes & Benjamin, 1926 (Euparthenos)

Genus EUBOLINA Harvey, 1875

93 1056 E. impartialis Harvey, 1875 (Eubolina) 8720

Genus AMOLITA Grote, 1874

93 1060 A. fessa Grote, 1874 (Amolita) 9818
93 1061 A. obliqua Smith, 1903 (Amolita) 9819
duplipuncta Strand, 1916 (Amolita)
93 1062E A. sentalis (Kaye, 1901) (Parvapenna) EXCL. 9820
NOTE: Inclusion of this species in the NA fauna was an error by Kimball (1965). It was excluded by Lafontaine & Schmidt (2015).
93 1063 A. roseola Smith, 1903 (Amolita) 9821
93 1064 A. fratercula Barnes & McDunnough, 1912 (Amolita) 9822
93 1065 A. delicata Barnes & McDunnough, 1912 (Amolita) 9823

Subfamily EULEPIDOTINAE Grote, 1895

Genus EULEPIDOTIS Hübner, 1823
CALYDIA Bar, 1875
EULEPIDOTUS Herrich-Schäffer, 1856
PALINDIA Guenée, 1852
PALINDIONA Hampson, 1926
PEROPALPUS Blanchard, 1852

93 1066 E. addens (Walker, 1858) (Palindia) [NEW]
93 1067 E. metamorpha Dyar, 1914 (Eulepidotis) STRAY 8570
93 1068 E. rectimargo (Guenée, 1852) (Palindia) [NEW]
93 1069 E. electa Dyar, 1914 (Eulepidotis) [NEW]
93 1069.1 E. dominicata (Guenée, 1852) (Palindia) 8569
NOTE: This species was erroneously removed from the NA checklist by Lafontaine & Schmidt (2010); it was reinstated by Lafontaine & Schmidt (2011).
93 1069.2 E. persimilis (Guenée, 1852) (Palindia) [NEW]
93 1070 E. micca (Druce, 1889) (Palindia) 8571
93 1071 E. striaepuncta (Herrich-Schäffer, 1868) (Palindia) STRAY [NEW]
obscura (Möschler, 1890) (Palindia)
variabilis (Möschler, 1890) (Palindia)
93 1071.1 E. merricki (Holland, 1902) (Palindia) 8572
NOTE: Added to the NA list based on specimens collected recently in FL by Jim Troubridge and David Fine (Schmidt et al. 2018). It had been listed by Franclemont & Todd (in Hodges et al. 1983) based on the supposed TL of Pittsburgh, PA. That was considered to be mislabeled by Lafontaine & Schmidt (2010) and they had excluded it from the NA fauna.

Genus HERMINOCALA Hampson, 1913

93 1072 H. stigmaphiles (Dyar, 1914) (Rhosologia) 8564

Genus OBRIMA Walker, 1856

93 1073 O. rinconada Schaus, 1894 (Obrima) 8565
pimaensis Barnes & Benjamin, 1925 (Obrima)
93 1074 O. pyraloides Walker, 1865 (Obrima) [NEW]

Genus METALLATA Möschler, 1890
EUTHERMESIA Butler, 1896
SASERNA Druce, 1891

93 1075 M. absumens (Walker, 1862) (Thermesia) 8573
adjuncta (Walker, 1865) (Thermesia)
alacris (Walker, 1865) (Thermesia)
canalis (Grote, 1874) (Antiblemma)
conficita (Walker, 1865) (Thermesia)
contiguata Hayes, 1975 (Metallata)
fasciata (Smith, 1900) (Antiblemma)
funesta (Walker, 1865) (Thermesia)
guttula (Edwards, 1882) (Antiblemma)
inexacta (Walker, 1865) (Thermesia)
lyde (Druce, 1891) (Saserna)
minorata (Smith, 1900) (Antiblemma)
saturata (Walker, 1865) (Thermesia)
scissilinea (Walker, 1862) (Hypena)
variabilis Möschler, 1890 (Metallata)

Genus RENODES Guenée, 1852
APPHADANA Walker, 1865
DAGASSA Walker, 1858

93 1076 R. curviluna (Druce, 1890) (Marmorinia) [NEW]

Genus ANTICARSIA Hübner, 1818

93 1077 A. gemmatalis Hübner, 1818 (Anticarsia) 8574
costalis (Walker, 1858) (Thermesia)
detrahens (Walker, 1858) (Hypernaria)
gemina (Maassen, 1890) (Thermesia)
gemmatilis; [various, no date] (Anticarsia) missp.
infumata (Felder & Rogenhofer, 1874) (Thermesia)
leucospila (Walker, 1865) (Hypernaria)
monstratura (Walker, 1858) (Thermesia)
spiloleuca (Walker, 1858) (Plaxia)
subducta (Walker, 1858) (Plaxia)
subsignata (Walker, 1858) (Remigia)

Genus AZETA Guenée, 1852
MILYAS Walker, 1858

93 1078 A. repugnalis (Hübner, 1825) (Pangrapta) 8575
ferruginea (Smith, 1900) (Anticarsia)
fusilinea (Walker, 1858) (Thermesia)
mirzah Guenée, 1852 (Azeta)
suffusa (Walker, 1866) (Thyridospila)
undulifera (Walker, 1865) (Chabora)
vampoa Guenée, 1852 (Azeta)
93 1079 A. schausi (Barnes & Benjamin, 1924) (Anticarsia) 8576
93 1079.1 A. ceramina (Hübner, [1821]) (Chamyna) [NEW]
NOTE: New to the NA list, based on a TX specimen collected in 2018 by Ann Hendrickson and verified by DNA barcoding. It was reported in the 2017-19 Season Summary of the Lepidopterists' Society (2020).
imbuta (Walker, 1869) (Thermesia)
metaspila (Walker, 1865) (Hypernaria)
sera (Walker, 1858) (Plaxia)

Genus GONIOCARSIA Hampson, 1926

93 1080 G. electrica (Schaus, 1894) (Thermesia) 8580

Genus EPITAUSA Walker, 1857
ARCHANA Walker, 1865
ORTHOGRAMMA Guenée, 1852

93 1081 E. prona (Möschler, 1880) (Thermesia) 8581
93 1082 E. coppryi (Guenée, 1852) (Orthogramma) [NEW]
NOTE: Reported from NA (TX) by Knudson & Bordelon (2004).
apicifera (Walker, 1865) (Azeta)
certa (Walker, 1865) (Archana)
guttularis (Walker, 1865) (Thermesia)
icterodes (Felder & Rogenhofer, 1874) (Thermesia)

Genus EPHYRODES Guenée, 1852

93 1083 E. cacata Guenée, 1852 (Ephyrodes) 8582
comprimens Walker, 1858 (Ephyrodes)
exprimens Walker, 1858 (Ephyrodes)
implens Walker, 1858 (Ephyrodes)
jurgiosa Walker, 1858 (Ephyrodes)
laena Druce, 1890 (Ephyrodes)
mensurata Möschler, 1880 (Ephyrodes)
pallescens (Walker, 1865) (Liviana)
pallida (Walker, 1865) (Leida)
quatiens (Walker, 1858) (Zethes)
scitilinea Walker, 1858 (Ephyrodes)
thermisioides (Walker, 1866) (Maltana)

Genus ATHYRMA Hübner, 1823
ID INFO: Troubridge (2020).
ATHYMA; Pagenstecher, 1888 missp.

93 1085 A. ganglio Hübner, [1831] 1825 (Athyrma) [NEW]
NOTE: Previously listed as "*A. ganglio* of authors" (Lafontaine & Schmidt 2010), but this taxon proved to be the "true" *A. ganglio* (Troubridge 2020).
93 1085.1 A. fakahatchee Troubridge, 2020 (Athyrma) [NEW]
NOTE: This species, described by Troubridge (2020), was previously referred to as an undescribed *Athyrma* species near *adjutrix* (Lafontaine & Schmidt 2010).
adjutrix of authors; (not Cramer, [1780]) (Phalaena) misappl. *[8583]*

Genus SYLLECTRA Hübner, 1819

93 1086 S. erycata (Cramer, [1780]) (Phalaena) 8584
ericata; Guenée, 1852 (Syllectra) missp.
mirandalis Hübner, 1819 (Syllectra)

Genus MANBUTA Walker, 1865
PAGYRA Schaus, 1901

93 1087 M. pyraliformis (Walker, 1858) (Thermesia) [NEW]
arenosa (Walker, 1865) (Phurys)
concisa (Walker, 1865) (Iluza)
credibilis (Walker, 1858) (Thermesia)
flavilineata (Hampson, 1904) (Thermesia)
pedestris (Walker, 1858) (Phurys)
profecta (Walker, 1858) (Poaphila)
sigillata (Walker, 1858) (Thermesia)

Genus MASSALA Walker, 1865

93 1088 M. obvertens (Walker, 1858) (Azeta) 8586
insularis (Möschler, 1890) (Capnodes)
larina Druce, 1890 (Massala)
turtur (Felder & Rogenhofer, 1874) (Capnodes)

Genus PANOPODA Guenée, 1852
HARVEYA Grote, 1873
SIAVANA Walker, 1857

93 1089 P. rufimargo (Hübner, 1818) (Phoberia) 8587
cressonii Grote, 1863 (Panopoda)
roseicosta Guenée, 1852 (Panopoda)
rubricosta Guenée, 1852 (Panopoda)
93 1090 P. carneicosta Guenée, 1852 (Panopoda) 8588
combinata (Walker, 1858) (Ophiusa)
scissa (Walker, 1865) (Poaphila)
93 1091 P. repanda (Walker, [1858]) (Siavana) 8589
auripennis (Grote, 1873) (Harveya)
93 1092 P. rigida (Smith, 1903) (Siavana) 8590

Genus ANTIBLEMMA Hübner, 1821
ID INFO (partial): Troubridge (2020).
EGRYRLON Smith, 1900

93 1093 A. rufinans (Guenée, 1852) (Capnodes) 8577
astyla (Möschler, 1890) (Capnodes)
discerpta (Walker, 1858) (Gerisa)
lara (Druce, 1890) (Capnodes)
marita (Schaus, 1901) (Capnodes)
punctivena (Smith, 1900) (Capnodes)
subcinerascens (Walker, 1858) (Hypernaria)
torrida (Walker, 1865) (Thermesia)
93 1094 A. filaria (Smith, 1900) (Egryrlon) 8578
93 1094.1 A. carolae Troubridge, 2020 (Antiblemma) [NEW]
93 1094.2 A. perva Troubridge, 2020 (Antiblemma) [NEW]
concinnula of authors; (not Walker, 1865) (Necla) misappl. *[8579]*
93 1094.3e A. californica (Behr, 1870) (Capnodes)
EXCL.; nom. dub. [NEW]
NOTE: This is an unrecognized species. TL: CA: Downieville.

Genus PHYPROSOPUS Grote, 1872
PHIPROSOPUS; Dyar, 1893 emend.
SUDARIOPHORA Zeller, 1872

93 1101 P. callitrichoides Grote, 1872 (Phyprosopus) 8525
nasutaria (Zeller, 1872) (Sudariophora)

91. Family EUTELIIDAE Grote, 1882 (elves)

by B. Christian Schmidt

Adult euteliids are medium-sized moths (25 to 40 mm wingspan in NA species) with a distinctive resting posture, where the wings are folded lengthwise and held perpendicular to the body. Characters that unite the family include the shape of the forewings, a reduced female frenulum and a clypeofrons that is scaled only at the edge. Larval host plants include a number of tropical plant families, but most Nearctic species are specialists on plants in the sumac family (Anacardiaceae).

The Euteliidae is a tropical family with only a handful of species represented in temperate NA. They were included in the world catalog of Noctuidae by Poole (1989) and were covered in the NA Noctuoidea checklist and updates published by Lafontaine & Schmidt (2010, 2011, 2013a, 2015) and Schmidt et al. (2018). The family contains 29 genera and 520 species globally; 18 are known from NA. No comprehensive taxonomic treatments of Euteliidae have been published at the species level, but a recent study by Zahiri et al. (2023) elucidated the phylogeny of the family at the genus level and above.

Subfamily EUTELIINAE Grote, 1882

Genus MARATHYSSA Walker, 1865

NOTE: The species *M. pulcherrimus*, *M. pyrastis*, and *M. furcata* were moved from *Eutelia* by Zahiri et al. (2023). The genus *Eutelia* does not occur in NA.

MARASMALUS Grote, 1872
RIPOGENUS Grote, 1865
SCHAZAMA Schaus, 1906

93 1103 M. inficita (Walker, 1865) (Eutelia) 8955
histrio (Grote, 1873) (Marasmalus)

93 1104 M. basalis Walker, 1865 (Marathyssa) 8956
ventilator (Grote, 1872) (Marasmalus)

93 1105 M. minus Dyar, 1921 (Marathyssa) [NEW]

93 1105.1 M. pulcherrimus (Grote, 1865) (Ripogenus) 8968
dentifera (Walker, 1865) (Eutelia)

93 1105.2 M. pyrastis (Hampson, 1905) (Eutelia) [NEW]
NOTE: This species was treated as a synonym of *M. furcata* (placed in the genus *Eutelia* at the time) by Franclemont & Todd (in Hodges et al. 1983). It was raised from synonymy by Lafontaine & Schmidt (2010).

93 1105.3 M. furcata (Walker, 1865) (Penicillaria) 8968.1
distracta (Walker, 1865) (Eutelia)
nattereri (Druce, 1898) (Eutelia)
pertanda (Dyar, 1925) (Eutelia)
piratica (Schaus, 1940) (Eutelia)

Genus PAECTES Hübner, 1818

ID INFO (partial): Metzler & Franclemont (1991), Pogue (2013a), Troubridge (2020).

ADRANA Walker, 1858
CALLINGURA Butler, 1894
INGURA Guenée, 1852
ORTHOCLOSTERA Butler, 1878

93 1106 P. oculatrix (Guenée, 1852) (Ingura) 8957
occulatrix; [various, no date] (Paectes) missp.

93 1107 P. pygmaea Hübner, 1818 (Paectes) 8959
flabella (Grote, 1879) (Ingura) *[8958]*

93 1108 P. abrostolella (Walker, 1866) (Subrita) [NEW]
NOTE: Removed from synonymy with *P. pygmaea* by Wormington (1995).
praepilata (Grote, 1875) (Ingura)

93 1110 P. declinata (Grote, 1879) (Ingura) 8961

93 1111 P. abrostoloides (Guenée, 1852) (Ingura) 8962
delineata (Guenée, 1852) (Ingura) *[8963]*
producta (Walker, 1855) (Edema)

93 1111.1 P. lunodes (Guenée, 1852) (Ingura) [NEW]

93 1112.1 P. hercules Troubridge, 2020 (Paectes) [NEW]

93 1113.1 P. fuscescens (Walker, 1855) (Edema) [NEW]
pseudopsis (Walker, 1858) (Adrana)

93 1114 P. acutangula Hampson, 1912 (Paectes) 8964

93 1115 P. nubifera Hampson, 1912 (Paectes) 8965

93 1117 P. nana (Walker, 1865) (Edema) [NEW]
arcigera of authors; (not Guenée, 1852) (Ingura) misid. *[8967]*
burserae (Dyar, 1901) (Ingura) *[8960]*
indefatigabilis Schaus, 1923 (Paectes)
interrumpens (Walker, 1858) (Abrostola)
isabel Schaus, 1923 (Paectes)
murina (Druce, 1889) (Ingura)

93 1117.1 P. asper Pogue, 2013 (Paectes) [NEW]
obrotunda of authors; (not Guenée, 1852) (Ingura) misappl. *[8966]*

92. Family NOLIDAE Bruand, 1846 (tuft moths)

by B. Christian Schmidt

Nolids are small for Noctuoidea (15 to 40 mm wingspan). They are one of the four major groups of the quadrifid noctuoids, and like most large families they comprise a heterogeneous group of taxa. The most characteristic apomorphy of the family is the boat-shaped cocoon (Kitching & Rawlins 1999). Deciduous trees and shrubs form the majority of the larval hosts, although forbs, grasses, and lichens are also represented.

Despite their heterogeneity, Nolids have been decisively united as a well-supported family in phylogenetic studies, most convincingly by Zahiri et al. (2013a). Nine subfamilies comprise the Nolidae, eight of which were included in the analysis of Zahiri et al. (2013a). The phylogenetic position of the Afridinae remains untested but it was placed as Nolidae by Fibiger & Lafontaine (2005).

With an estimated 1,740 described species in 186 genera (van Nieukerken et al. 2011), nolids occur worldwide but are most diverse in the Palaeotropical region. Seven subfamilies and 40 species are represented in NA. The family was treated in the world catalog of Noctuidae by Poole (1989) and was covered in the NA Noctuoidea checklist and updates published by Lafontaine & Schmidt (2010, 2011, 2013a, 2015) and Schmidt et al. (2018). No comprehensive taxonomic treatments of NA Nolidae have been published.

Subfamily DIPHTHERINAE Fibiger & Lafontaine, 2005

Genus DIPHTHERA Hübner, 1809
EUGLYPHIA Hübner, 1820
NOROPSIS Guenée, 1852

93 1120.5 D. festiva (Fabricius, 1775) (Bombyx) 8560
elegans Hübner, 1809 (Diphthera)
fastuosa (Guenée, 1852) (Noropsis)
hieroglyphica (Cramer, [1777]) (Phalaena)

Subfamily NOLINAE Bruand, 1846

Genus MEGANOLA Dyar, 1898
ID INFO (partial): Franclemont (1985b), Troubridge (2020).

93 1121 M. minuscula (Zeller, 1872) (Nola) 8983
ssp. a. minuscula (Zeller, 1872) (Nola)
ssp. b. eucalyptula (Dyar, 1923) (Roeselia)
93 1122 M. phylla (Dyar, 1898) (Nola) [NEW]
93 1122.1 M. georgei Troubridge, 2020 (Meganola) [NEW]
93 1123 M. spodia Franclemont, 1985 (Meganola) [NEW]
93 1124 M. minor Dyar, 1899 (Meganola) 8984
93 1125 M. fuscula (Grote, 1881) (Nola) 8985
93 1126 M. dentata Dyar, 1899 (Meganola) 8986
93 1127 M. varia (Barnes & Lindsey, 1921) (Roeselia) 8987
extusata (Dyar, 1923) (Roeselia)
93 1128 M. conspicua Dyar, 1898 (Meganola) 8988
bicrenuscula (Dyar, 1923) (Roeselia)

Genus NOLA [Leach, 1815]
ARGYROPHYES Grote, 1873
CELAMA Walker, 1825
LEBENA Walker, 1866
ROESELIA Hübner, 1825

93 1129 N. pustulata (Walker, 1865) (Erastria) 8989
nigrofasciata Zeller, 1872 (Nola)
obaurata (Morrison, 1875) (Eustrotia)
93 1130 N. cilicoides (Grote, 1873) (Argyrophyes) 8990
ssp. a. cilicoides (Grote, 1873) (Argyrophyes)
ssp. b. eurypennis (Dyar, 1923) (Celama)
93 1131 N. cereella (Bosc, [1800]) (Phalaena) [NEW]
NOTE: This species, described from southeastern USA, was overlooked in catalogs until it was rediscovered by Miller & Becker (1989), who also synonymized *sorghiella*.
portoricensis Möschler, 1890 (Nola)
sorghiella Riley, 1882 (Nola) *[8991]*
93 1132 N. triquetrana (Fitch, 1856) (Brachytaenia) 8992
sexmaculata Grote, 1877 (Nola)
trinotata (Walker, 1866) (Lebena)
93 1133 N. minna Butler, 1881 (Nola) 8993
hyemalis Stretch, 1885 (Nola)
93 1135 N. ovilla Grote, 1875 (Nola) 8995
93 1136 N. clethrae Dyar, 1899 (Nola) 8996
93 1137 N. lagunculariae Dyar, 1901 (Nola) 8997
obliquata (Barnes & McDunnough, 1913) (Celama)
93 1138 N. involuta Dyar, 1898 (Nola) [NEW]
apera of authors; not Druce, 1897 (Nola) misappl. *[8998]*
aphyla (Hampson, 1900) (Celama) *[8994]*
exposita Dyar, 1898 (Nola)
93 1139 N. cucullatella (Linnaeus, 1758) (Phalaena) I [NEW]
NOTE: A European introduction, first detected in NA (in southwestern BC) by Dave Holden in 2008 (Lafontaine & Schmidt 2010).
cuculatella; Crabo & Holden, 2020 (Nola) missp.
cucullalis Doubleday, 1848 (Nola)
cucullatalis (Haworth, 1811) (Pyralis)
cucullatana (Hübner, [1825]) (Roeselia)
fuliginalis Stephens, 1834 (Nola)
ludvigella (Müller, 1764) (Phalaena)
palliola ([Denis & Schiffermüller], 1775) (Noctua)
palliolalis (Hübner, 1796) (Pyralis)
palliolana Duponchel, [1845] (Nola)
pygmaria (Fabricius, 1794) (Phalaena)
tutulella Zerny, 1927 (Nola)

Genus CEPHALOSPARGETA Möschler, 1890

93 1140 C. elongata Möschler, 1890 (Cephalospargeta) 9837

Subfamily CHLOEPHORINAE Stainton, 1859

Tribe SARROTHRIPINI Hampson, 1894

Genus GARELLA Walker, [1863]
CHARACOMA Walker, 1863
CORTICATA Walker, 1864
HYPOTHRIPA Hampson, 1894
PARAXIA Möschler, 1890

93 1141 G. nilotica (Rogenhofer, 1881) (Sarrothripa) I 8974
NOTE: Introduced, according to Zahiri et al. (2014).
albifascia (Draudt, 1939) (Characoma)
basibrunnea Warren, 1913 (Garella)
chamaeleon (Möschler, 1890) (Paraxia)
laurea (Druce, 1898) (Thalpochares)
littora (Bethune-Baker, 1894) (Cletthara)
nigrimacula Warren, 1913 (Garella)
nigrinotata Warren, 1913 (Garella)
proteella (Dyar, 1898) (Nycteola)
submediana Strand, 1917 (Garella)

Genus NYCTEOLA Hübner, 1822
ID INFO: Rindge (1961b).
AXIA Hübner, 1825
DUFAYELLA Căpuşe, 1972
ICASMA Turner, 1902
SAROTHRIPUS; Agassiz, 1846 missp.
SAROTRICHA; Meyrick, 1888 missp.
SARROTHRIPUS Curtis, 1824
SUBRITA Walker, 1866

93.1142 N. frigidana (Walker, 1863) (Tortrix) 8975
ssp. a. frigidana (Walker, 1863) (Tortrix)
favillana (Walker, 1863) (Tortrix)
latifasciella (Walker, 1866) (Subrita)
lintnerana (Speyer, 1875) (Sarothripus)
ssp. b. britana McDunnough, 1943 (Nycteola)
93.1143 N. columbiana (Edwards, [1874]) (Sarrothripa) 8976
93.1144 N. cinereana Neumoegen & Dyar, 1893 (Nycteola) 8977
revayana of authors; (not Scopoli, 1772) (Phalaena) misappl.
NOTE: This Palaearctic name was historically used widely in NA.
93.1145 N. metaspilella (Walker, 1866) (Subrita) [NEW]
scriptana (Walker, 1863) (Tortrix) preocc. *[8978]*
93.1146 N. fletcheri Rindge, 1961 (Nycteola) 8979

Subfamily ELIGMINAE Mell, 1943

Genus ISCADIA Walker, 1857
ENCALYPTA Möschler, 1890
EUCALYPTA; Hampson, 1912 missp.

93.1147 I. aperta Walker, 1857 (Iscadia) 8980
schildei (Möschler, 1890) (Eucalypta)

Subfamily RISOBINAE Mell, 1943

Genus BAILEYA Grote, 1895
ID INFO (partial): Brou (2004).
BAYLEYA; Lucas, 1900 missp.
LEPTINA Guenée, 1852

93.1148 B. doubledayi (Guenée, 1852) (Leptina) 8969
93.1149 B. ophthalmica (Guenée, 1852) (Leptina) 8970
93.1150 B. dormitans (Guenée, 1852) (Leptina) 8971
latebricola (Grote, 1863) (Leptina)
93.1151 B. acadiana Brou, 2004 (Baileya) [NEW]
93.1152 B. levitans (Smith, 1906) (Leptina) 8972
93.1153 B. ellessyoo Brou, 2004 (Baileya) [NEW]
93.1154 B. australis (Grote, 1881) (Leptina) 8973

Subfamily COLLOMENINAE Zahiri, Lafontaine & Schmidt, 2012

Genus MOTYA Walker, 1859
LUSSA Grote, 1893
PLEURASYMPIEZA Möschler, 1890

93.1155 M. abseuzalis Walker, 1859 (Motya) 8981
nigroguttata (Grote, 1883) (Lussa)
smithii (Möschler, 1890) (Pleurasympieza)
tumidicosta (Hampson, 1898) (Stictoptera)

Genus COLLOMENA Möschler, 1890

93.1156.5 C. inflexa (Morrison, 1875) (Laphygma) [NEW]
NOTE: The identity of NA populations of *Collomena* was corrected by Lafontaine & Schmidt (2015); it was previously listed as P-No. 931156 *C. filifera*.
filifera of authors; (not Walker, 1857) (Laphygma) misappl. *[8982]*

Subfamily AFRIDINAE Kitching & Rawlins, 1999

Genus AFRIDA Möschler, 1886
ARESIA Barnes & McDunnough, 1913

93.1158 A. ydatodes Dyar, 1913 (Afrida) 8102
parva (Barnes & McDunnough, 1913) (Aresia)
93.1159 A. minuta (Druce, 1885) (Nola) 8103

Genus "AFRIDA" Möschler, 1886 PROV. PL.

93.1160 A. exegens Dyar, 1922 (Afrida) mispl. [NEW]
NOTE: This species was added to the NA fauna by Ferguson & Opler (2006), based on records from AZ and TX. They had it unplaced to genus or higher taxonomic group within the Arctiinae. Lafontaine & Schmidt (2010) placed it in the Nolidae, and determined that it does not belong to *Afrida*, but rather to a related, undetermined genus in the Nolinae.

93. Family NOCTUIDAE Latreille, 1809 (owlet moths and allies)

by B. Christian Schmidt

The Noctuidae or owlet moths are one of the largest families of Lepidoptera. The majority are medium-sized (wingspans in the range of 30 to 50 mm) with a complex but broadly conserved forewing pattern exhibiting distinct reniform, orbicular, and claviform stigma. Owlet moths are difficult to diagnose based solely on morphological traits as there are no unambiguous morphological autapomorphies. Nonetheless, most subfamilies are unified by a reduced vein M2 of the hindwing, medial fusion of the basal abdominal tympanal bullae, and a subapical diamond-shaped plate on the posterior apophyses of the female genitalia.

Life history strategies and larval diets of owlets are diverse, but in very general terms, most Noctuinae larvae (cutworms and relatives) feed on herbaceous plants with considerable species radiations on graminoids (grasses, sedges, and related monocots), while many non-noctuine subfamilies are tree and shrub feeding folivores. Specialization on different plant tissues is exhibited by flower, seed, and fruit feeding in several lineages, notably Stiriinae, Heliothinae, and Acontiinae, while the Apameini (Noctuinae) are noted for their root- and stem-boring habits. The Noctuidae include many notorious agricultural pests such as cutworms, armyworms, bollworms, stalk-borers, and others. Nearly all economically important noctuids are concentrated in two subfamilies (Heliothinae and Noctuinae; Mitchell et al. 2000).

The systematic composition of the Noctuidae has undergone major changes in the past two decades, including the transfer of several large subfamilies to a separate family, Erebidae, together with tiger moths and tussock moths (see introductory section of Erebidae). Similarly, major recent advances in our understanding of intra-familial relationships have resulted in substantial changes in the circumscription of many subfamilies, particularly the Noctuinae (Fibiger & Lafontaine 2005), Amphipyrinae (Keegan et al. 2019, 2021), and the basal subfamilies (Zahiri et al. 2013b).

Owlet moths are cosmopolitan in distribution, with over 1,000 genera and 12,000 species globally. This group is the most speciose family in NA, with 2,555 known species in 22 subfamilies and two unplaced groups. In most temperate NA habitats, they form the majority of macrolepidopteran species diversity, and contrary to many Lepidoptera groups, are more diverse in temperate than tropical regions.

Several subfamilies have been the subject of comprehensive taxonomic treatments, including the Plusiinae (by Lafontaine & Poole 1991); Pantheinae, Raphiinae, Balsinae, and Acronictinae (by Schmidt & Anweiler 2020); Cuculliinae (by Poole 1995); and Heliothinae (by Hardwick 1996). The tribe Noctuini in the large subfamily Noctuinae was treated by Lafontaine (1987, 1998, 2004). Wagner et al. (2011) is a seminal reference on the biology of NA Noctuoidea and Noctuidae in particular, providing information on the immature stages of most eastern NA genera. Poole (1989) published a world catalog of the Noctuidae which included the Euteliidae, Nolidae, and most of the Erebidae at that time. The family was covered in the NA Noctuoidea checklist and updates published by Lafontaine & Schmidt (2010, 2011, 2013a, 2015) and Schmidt et al. (2018).

Subfamily DYOPSINAE Guenée, 1852

NOTE: This group corresponds to the "Eulepidotinae (incertae sedis) Group 2", of Lafontaine & Schmidt (2010).

Genus LITOPROSOPUS Grote, 1869

ID INFO (partial): Troubridge (2020).

93 1160.5 L. futilis (Grote & Robinson, 1868) (Dyops) 8556
93 1160.55 L. linea Troubridge, 2020 (Litoprosopus) [NEW]
93 1160.6 L. hatuey (Poey, 1832) (Noctua) [NEW]
haitiensis of authors; not Hampson, 1926 (Litoprosopus) misid.
93 1160.7 L. bahamensis Hampson, 1926 (Litoprosopus) 8557
93 1160.8 L. coachella Hill, 1921 (Litoprosopus) 8558
93 1160.9 L. confligens (Walker, [1858]) (Dyops) 8559

[NOCTUIDAE – Unnamed Subfamily]

NOTE: Keegan et al. (2021) suggested that *Homolagoa* is sister to the Plusiinae, but retained the group as unplaced within the Noctuidae.

Genus HOMOLAGOA Barnes & McDunnough, 1912

93 1160.95 H. grotelliformis Barnes & McDunnough, 1912 (Homolagoa) 9043

Subfamily PLUSIINAE Boisduval, [1828]

ID INFO: Lafontaine & Poole (1991).

Tribe ABROSTOLINI Eichlin & Cunningham, 1978

Genus ABROSTOLA Ochsenheimer, 1816

HABROSTOLA Sodoffsky, 1837
INGURIDIA Butler, 1879
UNCA Lhomme, 1929
UNKA Oken, 1815

93 1161 A. ovalis Guenée, 1852 (Abrostola) 8880
93 1162 A. urentis Guenée, 1852 (Abrostola) 8881
93 1163 A. parvula Barnes & McDunnough, 1916 (Abrostola) 8882
mariana Walter, 1928 (Abrostola)
93 1164 A. microvalis Ottolengui, 1919 (Abrostola) 8883

Genus MOURALIA Walker, 1858

93 1165 M. tinctoides (Guenée, 1852) (Abrostola) 8884
annulifera Walker, 1858 (Mouralia)
cossoides (Rothschild, 1917) (Nystalea)

Tribe ARGYROGRAMMATINI Eichlin & Cunningham, 1978

Genus ARGYROGRAMMA Hübner, 1823

931166 A. verruca (Fabricius, 1794) (Noctua) 8885
omega Hübner, 1823 (Argyrogramma)
omicron (Hübner, 1821) (Autographa)
rutila (Walker, 1865) (Plusia)

Genus ENIGMOGRAMMA Lafontaine & Poole, 1991

931167 E. basigera (Walker, 1865) (Plusia) 8886
laticlavia (Morrison, 1875) (Plusia)
931167.1 E. antillea Becker, 2001 (Enigmogramma) [NEW]

Genus TRICHOPLUSIA McDunnough, 1944

931168 T. ni (Hübner, [1803]) (Noctua) H 8887
NOTE: Reported by some (e.g., Smith 1994; Zahiri et al. 2014, 2017; Crabo & Holden 2020) as introduced, but this is a native holarctic species (Lafontaine & Troubridge 1998).
brassicae (Riley, 1870) (Plusia)
comma (Schultz, 1907) (Plusia)
deserticola (Oberthür, 1913) (Plusia)
echinocystidis (Strecker, 1874) (Plusia)
extrahens (Walker, 1858) (Plusia)
florida (Dannehl, 1929) (Plusia)
humilis (Walker, 1858) (Plusia)
innata (Herrich-Schäffer, 1868) (Plusia)
significans (Walker, 1858) (Plusia)
u-notata (Strand, 1917) (Phytometra)
931168.1E T. abrota (Druce, 1889) (Plusia) EXCL. 8888
NOTE: Excluded from the NA fauna by Lafontaine & Poole (1991), as no verifiable records could be found.

Genus CTENOPLUSIA Dufay, 1970
ACANTHOPLUSIA Dufay, 1970
GRAPHA Hübner, 1821

931169 C. oxygramma (Geyer, 1832) (Autographa) 8889
collateralis (Herrich-Schäffer, 1868) (Plusia)
indigna (Walker, 1858) (Plusia)
parallela (Walker, 1858) (Plusia)

Genus CHRYSODEIXIS Hübner, 1821
PSEUDOPLUSIA McDunnough, 1944

931170 C. includens (Walker, [1858]) (Plusia) 8890
binotula (Herrich-Schäffer, 1868) (Plusia)
culta (Lintner, 1885) (Plusia)
dyaus (Grote, 1875) (Plusia)
hamifera (Walker, 1858) (Plusia)
oo (Stoll, in: Cramer, [1782]) (Phalaena)
ooana (Strand, 1917) (Phytometra)
pertusa (Möschler, 1880) (Plusia)
931171.1 C. chalcites (Esper, [1798]) (Phalaena) I [NEW]
NOTE: Introduced from Europe to BC in 2008 (where it was eradicated), and then to ON and MI (Lafontaine & Schmidt 2013a; Zahiri et al. 2017). It was first reported under the name *C. eriosoma*, by Lafontaine & Schmidt (2010).
adjuncta (Walker, 1865) (Plusia)
bengalensis (Rossi, 1794) (Noctua)
buchholzi (Plötz, 1880) (Plusia)
chalsytis (Hübner, 1790) (Phalaena)
eriosoma of authors; (not Doubleday, 1843) (Plusia) misid.
integra (Walker, [1858]) (Plusia)
quaestionis (Fabricius, 1794) (Plusia)
verticillata (Guenée, 1852) (Plusia)

Tribe PLUSIINI Boisduval, [1828]

Subtribe AUTOPLUSIINA Kitching, 1987

Genus AUTOPLUSIA McDunnough, 1944

931172 A. egena (Guenée, 1852) (Plusia) 8891
galapagensis (Schaus, 1923) (Syngrapha)
931173 A. olivacea (Skinner, 1917) (Autographa) 8892
931174 A. egenoides Strand, 1917 (Autoplusia) 8893

Genus NOTIOPLUSIA Lafontaine & Poole, 1991

931175 N. illustrata (Guenée, 1852) (Plusia) 8894
abeona (Druce, 1889) (Plusia)
egenella (Herrich-Schäffer, 1868) (Plusia)
roxana (Druce, 1894) (Plusia)

Genus RACHIPLUSIA Hampson, 1913

931176 R. ou (Guenée, 1852) (Plusia) 8895
fratella (Grote, 1874) (Plusia)
ouana (Strand, 1917) (Phytometra)
ouella (Strand, 1917) (Phytometra)
pedalis (Grote, 1875) (Plusia)
tenaculum (Guenée, 1852) (Plusia)

Subtribe EUCHALCIINA Chou & Lu, 1979

Genus ALLAGRAPHA Franclemont, 1964

931177 A. aerea (Hübner, [1803]) (Noctua) 8898

Genus DIACHRYSIA Hübner, 1821

931178 D. aereoides (Grote, 1864) (Plusia) [NEW]
aeroides; Franclemont & Todd, 1983 (Diachrysia) missp. *[8896]*
931179 D. balluca (Geyer, 1832) (Dyachrysia) 8897

Genus EUCHALCIA Hübner, 1821
ADEVA McDunnough, 1944

931180 E. albavitta (Ottolengui, 1902) (Autographa) 8903
hutsonii (Smith, 1904) (Behrensia)
931181 E. borealis Lafontaine & Poole, 1991 (Euchalcia) [NEW]

Genus POLYCHRYSIA Hübner, 1821
POLYCHRYISIA; Bethune-Baker, 1906 missp.

931182 P. esmeralda (Oberthür, 1880) (Plusia) H [NEW]
moneta of authors; (not Fabricius, 1787) (Noctua) misappl. *[8901]*
trabea (Smith, 1895) (Deva)
931183 P. morigera (Edwards, 1886) (Deva) 8902

Genus PSEUDEVA Hampson, 1913

931184 P. purpurigera (Walker, 1858) (Deva) 8899
931185 P. palligera (Grote, 1881) (Deva) 8900
rubigera Hampson, 1913 (Pseudeva)

Genus CHRYSANYMPHA Grote, 1896

931186 C. formosa (Grote, 1865) (Leptina) 8904

Genus EOSPHOROPTERYX Dyar, 1902

931187 E. thyatyroides (Guenée, 1852) (Plusia) 8905

Genus EXYRA Grote, 1875

931188 E. fax (Grote, 1873) (Xanthoptera) 9021
rolandiana Grote, 1877 (Exyra) *[9022]*
931189 E. semicrocea (Guenée, 1852) (Xanthoptera) 9024
hubbardiana Dyar, 1904 (Exyra)
immaculata Benjamin, 1922 (Exyra)
931190 E. ridingsii (Riley, 1874) (Xanthoptera) [NEW]
nigrocaput (Morrison, 1875) (Xanthoptera) *[9023]*

Subtribe PLUSIINA Boisduval, [1828]

Genus AUTOGRAPHA Hübner, 1821
ID INFO: Lafontaine & Poole (1991): also Lafontaine & Dickel (2003).
PHYTOMETRA Hampson, 1913

Autographa precationis group Lafontaine & Poole, 1991

931191 A. precationis (Guenée, 1852) (Plusia) 8908

Autographa gamma group Lafontaine & Poole, 1991

931192 A. gamma (Linnaeus, 1758) (Phalaena) H [NEW]
NOTE: Holarctic; only in GR in NA (Lafontaine & Poole 1991).
gammina (Staudinger, 1901) (Plusia)

tana (Strand, 1917) (Phytometra)

Autographa californica group Lafontaine & Poole, 1991

931193 A. californica (Speyer, 1875) (Plusia) 8914
russea (Edwards, 1886) (Plusia)

Autographa jota group Lafontaine & Poole, 1991

931194 A. mappa (Grote & Robinson, 1868) (Plusia) 8912
931195 A. buraetica (Staudinger, 1892) (Plusia) H [NEW]
gammoides (Speyer, 1875) (Plusia)
931196 A. pseudogamma (Grote, 1875) (Plusia) 8913
freya (Strand, 1917) (Phytometra)
931197 A. v-alba Ottolengui, 1902 (Autographa) 8921
931198 A. speciosa Ottolengui, 1902 (Autographa) 8919
931199 A. flavida Lafontaine & Dickel, 2004 (Autographa) [NEW]

Autographa bractea group Lafontaine & Poole, 1991

931200 A. bimaculata (Stephens, 1830) (Plusia) 8911
adapta (Strand, 1917) (Phytometra)
u-brevis (Guenée, 1852) (Plusia)
931201 A. corusca (Strecker, 1885) (Plusia) 8918
931202 A. labrosa (Grote, 1875) (Plusia) 8920
931203 A. metallica (Grote, 1875) (Plusia) 8917
kasloensis (Strand, 1917) (Phytometra)
lenzii (French, 1889) (Plusia)
scapularis (Edwards, 1882) (Plusia)
931204 A. ampla (Walker, [1858]) (Plusia) 8923
alterna (Strecker, 1885) (Plusia)
931205 A. pasiphaeia (Grote, 1873) (Plusia) 8915

Autographa flagellum group Lafontaine & Poole, 1991

931206 A. rubidus Ottolengui, 1902 (Autographa) 8909
931207 A. sansoni Dod, 1910 (Autographa) 8910
931208 A. flagellum (Walker, [1858]) (Plusia) 8916
insolita (Smith, 1895) (Plusia)
monodon (Grote, 1875) (Plusia)

Genus MEGALOGRAPHA Lafontaine & Poole, 1991
ID INFO: Lafontaine & Sullivan (2009).

931208.5E M. bonaerensis (Berg, 1882) (Plusia) EXCL. 8906
NOTE: Excluded from the NA fauna by Lafontaine & Poole (1991), as no verifiable records could be found.
931209 M. biloba (Stephens, 1830) (Plusia) 8907
solida (Ottolengui, 1902) (Autographa)

Genus SYNGRAPHA Hübner, 1821
CALOPLUSIA Smith, 1884

931210 S. altera (Ottolengui, 1902) (Autographa) 8925
variana (Ottolengui, 1902) (Autographa)
931211 S. ottolenguii (Dyar, 1903) (Autographa) 8922
NOTE: Holarctic; only in the Aleutian islands of AK in NA (Lafontaine & Poole 1991).
arctica (Ottolengui, 1902) (Autographa)
931212 S. octoscripta (Grote, 1874) (Plusia) 8926
magnifica (Ottolengui, 1919) (Autographa)
931213 S. viridisigma (Grote, 1874) (Plusia) 8929
viridisignata (Grote, 1875) (Plusia)
931214 S. selecta (Walker, [1858]) (Plusia) 8928
931215 S. epigaea (Grote, 1875) (Plusia) 8927
epigaella Strand, 1917 (Syngrapha)
931216 S. interrogationis (Linnaeus, 1758) (Phalaena) H 8937
aemula (Fabricius, 1787) (Noctua)
aurosignata (Donovan, 1808) (Phalaena)
borealis (Reuter, 1893) (Plusia)
conscripta (Hübner, 1790) (Phalaena)
flammifera Chou & Lu, 1979 (Syngrapha)
herschelensis (Benjamin, 1933) (Autographa)
norrlandica Schulte, 1956 (Syngrapha)
pyrenaica Hampson, 1913 (Syngrapha)
transbaikalensis (Staudinger, 1892) (Plusia)
zeta (Ottolengui, 1902) (Autographa)
931217 S. u-aureum (Guenée, 1852) (Plusia) 8936
arctica (Möschler, 1884) (Plusia)
groenlandica (Staudinger, 1857) (Plusia)
pallida (Ottolengui, 1902) (Autographa)
vaccinii (Edwards, 1886) (Plusia)
931218 S. surena (Grote, 1882) (Plusia) 8938
931219 S. diasema (Boisduval, 1828) (Plusia) H 8935
931220 S. borea (Aurivillius, 1890) (Plusia) 8934
diversigna (Ottolengui, 1919) (Autographa)
lula (Strand, 1917) (Autographa) *[8933]*
931221 S. orophila (Hampson, 1908) (Plusia) 8930
931222 S. sackenii (Grote, 1877) (Plusia) 8932
sacceni; Hampson, 1913 (Syngrapha) emend.
snovi; Hampson, 1913 (Syngrapha) emend.
snowii (Edwards, 1884) (Plusia) *[8931]*
931223 S. ignea (Grote, 1863) (Plusia) 8949
hochenwarthi of authors; (not Hochenwarth, 1785) (Phalaena) misappl.
simulans (McDunnough, 1944) (Caloplusia)
931224 S. abstrusa Eichlin & Cunningham, 1978 (Syngrapha) 8940
931225 S. alias (Ottolengui, 1902) (Autographa) 8939
interalia (Ottolengui, 1919) (Autographa)
931226 S. cryptica Eichlin & Cunningham, 1978 (Syngrapha) 8941
931227 S. rectangula (Kirby, 1837) (Plusia) 8942
demaculata Strand, 1917 (Syngrapha)
mortuorum (Guenée, 1852) (Plusia)
nargenta (Ottolengui, 1919) (Autographa)
931228 S. angulidens (Smith, 1891) (Plusia) 8943
alta (Ottolengui, 1919) (Autographa)
excelsa (Ottolengui, 1902) (Autographa)
excelsana Strand, 1917 (Syngrapha)
plusioides Strand, 1917 (Syngrapha)
931229 S. celsa (Edwards, 1881) (Plusia) 8944
alterna Strand, 1917 (Syngrapha)
sierrae (Ottolengui, 1919) (Autographa)
931230 S. microgamma (Hübner, 1823) (Noctua) H 8946
incompleta (Reuter, 1893) (Plusia)
nearctica Ferguson, 1955 (Syngrapha)
nigroviolacea (Rangnow, 1935) (Phytometra)
931231 S. montana (Packard, 1869) (Plusia) 8945
931232 S. alticola (Walker, [1858]) (Plusia) [NEW]
devergens of authors; (not Hübner, 1813) (Noctua) misappl. *[8947]*
931233 S. parilis (Hübner, [1809]) (Noctua) H 8948
quadriplaga (Walker, 1858) (Plusia)

Genus ANAGRAPHA McDunnough, 1944

931234 A. falcifera (Kirby, 1837) (Plusia) 8924
falcigera; Walker, 1858 (Anagrapha) missp.
norma (Hübner, 1821) (Autographa)
simplex (Guenée, 1852) (Plusia)
simplicima (Ottolengui, 1902) (Autographa)

Genus PLUSIA Ochsenheimer, 1816
ID INFO: Lafontaine & Poole (1991): also Handfield & Handfield (2006a).
CHRYSASPIDIA Hübner, 1821
PALAEOPLUSIA Hampson, 1913

931235 P. venusta Walker, 1865 (Plusia) 8953
striatella Grote, 1873 (Plusia)
931236 P. putnami Grote, 1873 (Plusia) H 8950
barbara (Warren, 1913) (Phytometra)
conjuncta Matsumura, 1978 (Plusia)
festata Graeser, 1890 (Plusia)
gracilis (Lempke, 1966) (Autographa)
major (Chou & Lu, 1979) (Chrysaspidia)
punctistigma (Strand, 1917) (Phytometra)
yokohamensis (Bryk, 1949) (Phytometra)
931237 P. nichollae (Hampson, 1913) (Phytometra) 8951
mendocinensis (McDunnough, 1938) (Autographa)
931238 P. magnimacula Handfield & Handfield, 2006 (Plusia) [NEW]
931239 P. contexta Grote, 1873 (Plusia) 8952

Subfamily BAGISARINAE Crumb, 1956

Genus BAGISARA Walker, 1858
ID INFO: Ferguson (1997).

931240 B. repanda (Fabricius, 1793) (Bombyx) 9168
congesta (Walker, 1858) (Poaphila)

dispartita (Walker, 1858) (Anomis)
erecta (Walker, 1858) (Anthophila)
incidens Walker, 1858 (Bagisara)
inusta (Guenée, 1852) (Atethmia)
subusta (Hübner, 1823) (Atethmia)
trilinea (Walker, 1865) (Laphygma)
unipunctata (Möschler, 1890) (Acontia)
venusta (Berg, 1882) (Acontia)

93 1241 B. rectifascia (Grote, 1874) (Schinia) 9169
93 1242 B. pacifica Schaus, 1911 (Bagisara) 9170
93 1243 B. demura Dyar, 1913 (Bagisara) 9171
anotla Dyar, 1914 (Bagisara)
93 1244 B. buxea (Grote, 1881) (Schinia) 9172
delicia (Dyar, 1907) (Trileuca)
gustata Dyar, 1923 (Bagisara)
93 1245 B. oula Dyar, 1913 (Bagisara) 9173
93 1246 B. albicosta Schaus, 1911 (Bagisara) 9174
93 1247 B. gulnare (Strecker, 1880) (Schinia) 9175
93 1248 B. praecelsa Ferguson, 1997 (Bagisara) [NEW]
93 1249 B. laverna (Druce, 1889) (Xanthodes) [NEW]
93 1250 B. tristicta (Hampson, 1898) (Caradrina) 9176
amorata (Barnes, 1907) (Xanthodes)
93 1251 B. brouana Ferguson, 1997 (Bagisara) [NEW]

Genus AMYNA Guenée, 1852
CHYTORHIZA; Lucas, 1902 missp.
CHYTORYZA Grote, 1876
HESPERIMORPHA Saalmüller, 1880
ILATTIA Walker, 1859
ILLATIA; Hampson, 1910 missp.
LOCHIA Walker, 1865
NERRESA Walker, 1859
PTERAETHOLIX Grote, 1873
STRIDOVA Walker, 1873

93 1252 A. bullula (Grote, 1873) (Pteraetholix) 9069
concolorata Barnes & Benjamin, 1924 (Amyna)
imprimata (Möschler, 1890) (Mesostrosta)
mexicana Strand, 1917 (Amyna)
93 1253 A. stricta (Walker, 1858) (Poaphila) [NEW]
NOTE: The identity of populations previously reported as *A. axis* was corrected by Lafontaine & Schmidt (2015).
axis of authors; not Guenée, 1852 (Amyna) misid.
flavigutta (Walker, 1858) (Celaena)
octo of authors; (not Guenée, 1852) (Perigea) misappl. *[9070]*
orbica (Morrison, 1875) (Segetia)
tecta (Grote, 1876) (Chytoryza)
93 1253.1 A. amplificans (Walker, 1858) (Celaena) [NEW]
impedita (Walker, 1858) (Hadena)

Genus CONCANA Walker, 1858
THELIDORA Möschler, 1880

93 1253.5 C. mundissima Walker, [1858] (Concana) 8562
hoshea (Druce, 1889) (Hecatera)
mundula Dognin, 1912 (Concana)
splendens (Möschler, 1880) (Thelidora)

Subfamily COBUBATHINAE Wagner & Keegan, 2021

Genus TRIPUDIA Grote, 1877
ID INFO (partial): Pogue (2009), Blanchard & Knudson (1984c), Troubridge (2020).

93 1257 T. damozela (Dyar, 1914) (Cobubatha) [NEW]
93 1257.1 T. inquaesita (Barnes & Benjamin, 1924) (Cobubatha) 9002
NOTE: Synonymized with *T. damozela* by Lafontaine & Schmidt (2010), but then reinstated as a valid species by Lafontaine & Schmidt (2015)
damozela of authors; (not Dyar, 1914) (Cobubatha) misappl.
93 1258 T. munna (Dyar, 1916) (Cobubatha) [NEW]
93 1259 T. chihuahua Blanchard & Knudson, 1984 (Tripudia) [NEW]
93 1260 T. quadrifera (Zeller, 1874) (Erastria) 9003
catiena (Druce, 1889) (Eustrotia)
93 1260.1 T. paraplesia Pogue, 2009 (Tripudia) [NEW]
93 1261 T. rectangula Pogue, 2009 (Tripudia) [NEW]
93 1262 T. grapholithoides (Möschler, 1890) (Thalpochares) 9004
93 1263 T. lamina Pogue, 2009 (Tripudia) [NEW]
93 1264 T. balteata Smith, 1900 (Tripudia) 9005
93 1265 T. luda (Druce, 1898) (Agrophila) 9006
93 1266 T. dimidata (Smith, 1905) (Acontia) 9007
93 1266.1 T. calusa Troubridge, 2020 (Tripudia) [NEW]
93 1267 T. luxuriosa Smith, 1900 (Tripudia) 9008
93 1268 T. flavofasciata Grote, 1877 (Tripudia) 9009
93 1269 T. versutus (Edwards, 1881) (Oribates) 9010
93 1270 T. goyanensis (Hampson, 1910) (Cobubatha) [NEW]
olivacea (Grossbeck, 1917) (Cobubatha)
93 1271 T. limbatus (Edwards, 1881) (Oribates) 9011
anaea (Druce, 1898) (Agrophila)

Genus COBUBATHA Walker, 1863
NERASTRIA McDunnough, 1937

93 1272 C. metaspilaris Walker, 1863 (Cobubatha) 9012
numa of authors; (not Druce, 1889) (Eustrotia) misid.
NOTE: Misidentification by Kimball (1965).
ochrocraspis of authors; not Hampson, 1910 (Cobubatha) misid.
NOTE: This species was added to the NA fauna by Lafontaine & Schmidt (2010) based on a misidentification. Those records refer to *C. metaspilaris* (Schmidt et al. 2018).
punctifinis Hampson, 1910 (Cobubatha)
signiferana (Walker, 1865) (Agrophila)
93 1274 C. numa (Druce, 1889) (Eustrotia) 9013
93 1275 C. lixiva (Grote, 1882) (Tripudia) 9014
basicinerea (Grote, 1882) (Tripudia) *[9015]*
lixinites (Dyar, 1912) (Eustrotia)
93 1276 C. orthozona (Hampson, 1910) (Eustrotia) 9017
anita (Dyar, 1912) (Eustrotia)
antonita (Dyar, 1911) (Eustrotia) *[9016]*
santarita (Dyar, 1911) (Eustrotia)
victrix (Dyar, 1912) (Eustrotia)
93 1277 C. dividua (Grote, 1879) (Eustrotia) 9018
opiparus (Edwards, 1881) (Oribates)
93 1278 C. hippotes of authors; (not Druce, 1889) (Thalpochares) MISAPPL. 9019
NOTE: The NA records of this Central American species are an undescribed species near *C. hippotes* (Schmidt et al. 2018), but they are retained here as a biological species pending taxonomic work.
93 1279 C. ipilla (Dyar, 1916) (Tripudia) [NEW]
rustica (Dyar, 1918) (Tripudia)
93 1280 C. megaplaga (Dyar, 1912) (Eustrotia) [NEW]

Subfamily EUSTROTIINAE Grote, 1882

Genus PHOENICOPHANTA Hampson, 1910
CALLOSTOLIS Dyar, 1928

93 1281 P. bicolor Barnes & McDunnough, 1916 (Phoenicophanta) 9028
polyrrhoda (Walter, 1928) (Callostolis)
93 1282 P. modestula Dyar, 1924 (Phoenicophanta) 9029

Genus AMIANA Dyar, 1904
THIOPTERA Franclemont, 1950

93 1283 A. niama Dyar, 1904 (Amiana) 9034

Genus MARIMATHA Walker, [1866]
ID INFO: Ferris & Lafontaine (2010).
FLAVALA Berio, 1966
XANTHOPTERA Guenée, 1852

93 1284 M. nigrofimbria (Guenée, 1852) (Xanthoptera) 9044
93 1285 M. squala Ferris & Lafontaine, 2010 (Marimatha) [NEW]
93 1286 M. quadrata Ferris & Lafontaine, 2010 (Marimatha) [NEW]
93 1287 M. tripuncta (Möschler, 1890) (Xanthoptera) [NEW]
aurifera of authors; (not Walker, [1858]) (Xanthoptera) misappl. *[9045]*
93 1288 M. piscimala Ferris & Lafontaine, 2010 (Marimatha) [NEW]

Genus DELTOTE R. L., 1817

93 1289 D. bellicula (Hübner, 1818) (Lithacodia) 9046
furcata (Walker, 1858) (Bankia)

semichalcea (Walker, 1865) (Hydrelia)

Genus PROTODELTOTE Ueda, 1984

931290 P. muscosula (Guenée, 1852) (Erastria) 9047
931291 P. albidula (Guenée, 1852) (Erastria) 9048
cretiferana (Walker, 1863) (Conchylis)
intractabilis (Walker, 1860) (Nonagria)

Genus "LITHACODIA" Hübner, 1818 PROV. PL.
NOTE: The three species placed here do not belong in *Lithacodia* but they are retained here pending proper genus placement (Lafontaine & Schmidt (2010).

931292 L. musta (Grote & Robinson, 1868) (Erastria) mispl. 9051
931293 L. costaricana of authors; not Franclemont & Todd, 1983 (Lithacodia) MISAPPL.; mispl. 9052
NOTE: The taxon "*Lithacodia musta* ab. *costaricana*" Strand, 1917 was described as an aberration, so the name *costaricana* is not an available species name. However, the name was validated when Franclemont & Todd (in Hodges et al. 1983) listed it as a NA species. To complicate matters further, NA (AZ) specimens that were the basis for inclusion of *L. costaricana* Franclemont & Todd, 1983 in the NA list, are not conspecific with Costa Rican material, but are in fact a new species near *L. costaricana* (Lafontaine & Schmidt 2010).
931294 L. phya (Druce, 1889) (Acontia) mispl. [NEW]
penthis of authors; (not Schaus, 1904) (Eustrotia)
misid. *[9055]*

Genus MALIATTHA Walker, 1863

931295 M. synochitis (Grote & Robinson, 1868) (Erastria) 9049
931296 M. concinnimacula (Guenée, 1852) (Leptosia) 9050
parvimacula (Grote, 1880) (Eustrotia)

Genus CAPIS Grote, 1882
ID INFO: Handfield & Handfield (2006b).

931297 C. curvata Grote, 1882 (Capis) 9059
931298 C. archaia Handfield & Handfield, 2006 (Capis) [NEW]

Genus ARGILLOPHORA Grote, 1873

931299 A. furcilla Grote, 1873 (Argillophora) 9060

Genus EUSTROTIA Hübner, [1821] (excl.)

931299.5E E. fausta Druce, 1889 (Eustrotia) EXCL. [NEW]
NOTE: The new NA record (AZ) by Ferris (2009c) was a misidentification (Lafontaine & Schmidt 2010).

Genus OZARBA Walker, 1865
NOTE: Systematic placement follows Keegan et al. (2021).
ACONTIOLA Staudinger, 1900

931302 O. aeria (Grote, 1881) (Eustrotia) 9030
fannia (Druce, 1889) (Eustrotia)
931303 O. propera (Grote, 1882) (Eustrotia) 9031
931304 O. catilina (Druce, 1889) (Eustrotia) 9032
931305 O. nebula Barnes & McDunnough, 1918 (Ozarba) 9033

Subfamily ACONTIINAE Guenée, 1841
ID INFO: Lafontaine & Poole (2010; genera).

Tribe ACONTIINI Guenée, 1841

Genus PONOMETIA Herrich-Schäffer, 1868
ID INFO (partial): Blanchard & Knudson (1986a), Mustelin (2006), Lafontaine & Poole (2010).
CONOCHARES Smith, 1905
CONOCHARIS; McDunnough, 1943 missp.
FRUVA Grote, 1877
GRAEPERIA Grote, 1895
HELIODORA Neumoegen, 1891
NEPTUNIA Barnes & McDunnough, 1911
TARACHIDIA Hampson, 1898
TORNACONTIA Smith, 1900
UNIPTENA Nye, 1975

931306 P. albitermen (Barnes & McDunnough, 1916) (Tarachidia) 9082
931307 P. bicolorata (Barnes & McDunnough, 1912) (Tortricidia) 9084
931308 P. semiflava (Guenée, 1852) (Xanthoptera) 9085
931309 P. septuosa (Blanchard & Knudson, 1986) (Tarachidia) [NEW]
931310 P. clausula (Grote, [1883] 1882) (Xanthoptera) 9086
931311 P. venustula (Walker, 1865) (Acontia) 9087
discoidalis (Walker, 1866) (Acontia)
fortunata (Grote, 1882) (Thalpochares)
perita (Grote, 1882) (Thalpochares)
subcitrinalis (Hulst, 1886) (Orobena)
931312 P. virginalis (Grote, 1881) (Tarache) 9088
tenuescens (Smith, 1902) (Acontia)
931313 P. binocula (Grote, 1875) (Tarache) 9089
931314 P. candefacta (Hübner, [1831]) (Tarache) 9090
candefactella (Strand, 1916) (Tarachidia)
debilis (Walker, 1858) (Acontia)
haworthana (Westwood, 1851) (Micra)
neomexicana (Smith, 1900) (Acontia)
931315 P. dorneri (Barnes & McDunnough, 1913) (Tarache) 9091
931316 P. huita (Smith, 1903) (Acontia) 9092
931317 P. heonyx (Dyar, 1913) (Tarachidia) 9093
931318 P. cuta (Smith, 1905) (Acontia) 9094
931319 P. erastrioides (Guenée, 1852) (Acontia) 9095
931320 P. libedis (Smith, 1900) (Acontia) 9096
931321 P. nannodes (Hampson, 1910) (Tarachidia) 9097
931322 P. phecolisca (Druce, 1889) (Acontia) 9098
931323 P. alata (Smith, 1905) (Acontia) 9099
931324 P. albimargo (Barnes & McDunnough, 1916) (Tarachidia) 9100
931325 P. parvula (Walker, 1865) (Xanthodes) 9083
georgica (Grote, 1881) (Fruva)
931326 P. tortricina (Zeller, 1872) (Agrophila) 9101
deleta (Edwards, 1884) (Fruva)
modesta (Edwards, 1884) (Fruva)
obsoleta (Grote, 1877) (Fruva)
931327 P. fumata (Smith, 1905) (Spragueia) [NEW]
931328 P. nigra (Mustelin, 2006) (Tarachidia) [NEW]
931329 P. fasciatella (Grote, 1875) (Spragueia) 9102
931330 P. hutsoni (Smith, 1906) (Thalpochares) 9103
931331 P. pulchra (Barnes & McDunnough, 1910) (Azenia) 9104
931332 P. acutus (Smith, 1905) (Conochares) 9105
catalina (Smith, 1906) (Thalpochares) *[9108]*
931333 P. altera (Smith, 1903) (Tornacontia) [NEW]
alter; (Franclemont & Todd, 1983) (Conochares) emend. *[9107]*
conocharodes (Hampson, 1910) (Graeperia)
931334 P. elegantula (Harvey, 1876) (Thalpochares) 9109
arizonae (Edwards, 1878) (Thalpochares) *[9110]*
interruptus (Smith, 1905) (Conochares)
rectangula (McDunnough, 1943) (Conochares) *[9106]*
seminivealis (Hulst, 1886) (Orobena)
semiopaca (Grote, 1878) (Tarache)
931335 P. exigua (Fabricius, 1793) (Bombyx) 9115
citrina (Druce, 1889) (Monodes)
costalis (Walker, 1858) (Acontia)
dimidiata (Walker, 1865) (Acontia)
indubitans (Walker, 1857) (Nonagria)
magnifica (Neumoegen, 1891) (Heliodora)
ochricosta Herrich-Schäffer, 1868 (Ponometia)
931336 P. mcdunnoughi (Barnes & Benjamin, 1923) (Graeperia) [NEW]
macdunnoughi; Franclemont & Todd, 1983 (Ponometia) missp. *[9116]*
931337 P. megocula (Smith, 1900) (Tornacontia) 9117
931338 P. tripartita (Smith, 1903) (Tornacontia) 9118
mediatrix (Dyar, 1904) (Tornacontia)
931339 P. sutrix (Grote, 1880) (Tarache) 9119

Genus TARACHE Hübner, 1823
ID INFO (partial): Ferris & Lafontaine (2009), Mustelin et al. (2000).
CONACONTIA Smith, 1900
HEMISPRAGUEIA Barnes & Benjamin, 1923
THERASEA Grote, 1895

931340 T. apela (Druce, 1889) (Acontia) 9133
philomela (Druce, 1889) (Acontia)
931341 T. tenuicula Morrison, 1875 (Tarache) 9135
carcharodonta (Hampson, 1910) (Graeperia)
mescei; Hampson, 1910 (Tarache) emend.
meskei (Smith, 1900) (Acontia)
nuicola (Smith, 1900) (Acontia)
931342 T. sutor (Hampson, 1910) (Graeperia) 9134

93 1343 T. aprica (Hübner, [1808]) (Noctua) 9136
alboater (Haworth, 1809) (Noctua)
apricana (Strand, 1916) ([unknown])
apricanoides (Strand, 1916) ([unknown])
apricella (Strand, 1916) ([unknown])
biplaga (Guenée, 1852) (Acontia)
redita (Felder & Rogenhofer, 1874) (Acontia)
unocula (Freyer, 1849) (Acontia)

93 1344 T. assimilis (Grote, 1875) (Trichotarache) 9141

93 1345 T. abdominalis Grote, 1877 (Tarache) 9138
luta (Strand, 1917) ([unknown])
mala (Strand, 1916) ([unknown])

93 1346 T. knowltoni (McDunnough, 1940) (Acontia) 9139

93 1347 T. flavipennis Grote, 1873 (Tarache) 9140
delutea (Strand, 1916) ([unknown])
discolutea (Strand, 1916) ([unknown])

93 1348 T. lagunae (Mustelin & Leuschner, 2000) (Acontia) [NEW]

93 1349 T. delecta (Walker, [1858]) (Acontia) 9146
metallica (Grote, 1865) (Acontia)

93 1350 T. lactipennis Harvey, 1875 (Tarache) 9137

93 1351 T. terminimaculata Grote, 1873 (Tarache) 9145
pulchella Grote, 1874 (Tarache)

93 1352 T. dacia (Druce, 1889) (Acontia) 9144
curvilinea Barnes & McDunnough, 1913 (Tarache)

93 1353 T. quadriplaga (Smith, 1900) (Acontia) 9142
alessandra (Smith, 1903) (Acontia)

93 1354 T. tetragona (Walker, [1858]) (Acontia) 9143
ceyvenstensis (Dyar, 1904) (Acontia)
gonoides McDunnough, 1943 (Tarache)
redota Draudt, 1936 (Tarache)

93 1355 T. areloides Barnes & McDunnough, 1912 (Tarache) 9158

93 1356 T. areli (Strecker, 1898) (Acontia) 9159
monstrosa (Strand, 1916) ([unknown])

93 1357 T. albifusa (Ferris & Lafontaine, 2009) (Acontia) [NEW]

93 1358 T. toddi (Ferris & Lafontaine, 2009) (Acontia) [NEW]

93 1359 T. geminocula (Ferris & Lafontaine, 2009) (Acontia) [NEW]

93 1360 T. arida (Smith, 1900) (Acontia) 9150

93 1361 T. bella Barnes & Benjamin, 1922 (Tarache) 9147

93 1362 T. cora Barnes & McDunnough, 1918 (Tarache) 9151

93 1363 T. expolita Grote, 1882 (Tarache) 9149
embolima (Druce, 1889) (Acontia)

93 1364 T. idella (Barnes, 1905) (Cerathosia) 9120

93 1365 T. augustipennis Grote, 1875 (Tarache) 9111
angustipennis; Grote, 1877 (Tarache) missp.
flavicosta (Smith, 1900) (Conacontia) *[9112]*

93 1366 T. huachuca (Smith, 1903) (Conacontia) 9113
orba (Smith, 1903) (Conacontia) *[9114]*

93 1367 T. sedata Edwards, 1881 (Tarache) 9154
cacola (Smith, 1907) (Acontia)
gonella (Strecker, 1898) (Acontia)
gonellana (Strand, 1916) ([unknown])
niveicollis (Smith, 1901) (Acontia)

93 1368 T. acerba (Edwards, 1881) (Fruva) 9155
acerboides (Poole, 1989) (Acontia)

93 1369 T. axendra Schaus, 1898 (Tarache) [NEW]

93 1370 T. bilimeki (Felder & Rogenhofer, 1874) (Acontia) 9157
bilimeci; Hampson, 1910 (Tarache) emend.
disconnecta (Smith, 1903) (Acontia) *[9156]*

93 1371 T. major (Smith, 1900) (Acontia) 9152

93 1372 T. lanceolata Grote, 1879 (Tarache) 9153
lanceolatana (Strand, 1916) ([unknown])

93 1373 T. lucasi (Smith, 1900) (Acontia) 9148
aniluna (Smith, 1905) (Acontia)
pima (Smith, 1905) (Acontia)

93 1373.1E T. ardoris Hübner, [1831] (Tarache) EXCL. [NEW]
NOTE: This Neotropical species was presumably described from GA, but that is deemed erroneous as it is otherwise not known in NA. It was placed in *Tarache* by Lafontaine & Poole (2010).
duenna Schaus, 1898 (Tarache)

Genus ACONTIA Ochsenheimer, 1816
DESMOPHORA Stephens, 1829
EUPHASIA Stephens, 1830
HELIOTHERA Sodoffsky, 1837
PORROTHA Gistel, 1848
TIMA Walker, 1858
TRICHOTARACHE Grote, 1875

93 1374 A. behrii Smith, 1900 (Acontia) 9164
behri; [various, no date] (Acontia) missp.

93 1375 A. cretata (Grote & Robinson, 1870) (Tarache) 9161
neocula Smith, 1900 (Acontia)
schvarzi; (Hampson, 1910) (Tarache) emend.
schwarzii Smith, 1900 (Acontia)

93 1376 A. chea Druce, 1889 (Acontia) 9160
eudryada Smith, 1905 (Acontia) *[9162]*

93 1377 A. jaliscana (Schaus, 1898) (Tarache) [NEW]

93 1378 A. coquillettii Smith, 1900 (Acontia) 9163
coquilletti; [various, no date] (Acontia) missp.

Genus EUSCEPTIS Hübner, 1823
ID INFO: Todd (1971).
EUGRAPHIA Guenée, 1852

93 1379 E. flavifrimbriata Todd, 1971 (Eusceptis) 9166

Genus PSEUDALYPIA Edwards, 1874

93 1380 P. crotchii Edwards, 1874 (Pseudalypia) 9167
atrata Edwards, 1874 (Pseudalypia)

Genus SPRAGUEIA Grote, 1875
HELIOCONTIA Hampson, 1910
MNESIPYRGA Meyrick, 1913
SPRAGUERIA; Kohler, 1970 missp.

93 1381 S. magnifica Grote, [1883] 1882 (Spragueia) 9121

93 1382 S. dama (Guenée, 1852) (Agrophila) 9122
concolor (Möschler, 1890) ([unknown])
pardalis Grote, 1881 (Spragueia)
transmutata (Walker, 1865) (Agrophila)
trifariana (Walker, 1865) (Agrophila)

93 1383 S. cleta (Druce, 1889) (Agrophila) 9123

93 1384 S. perstructana (Walker, 1865) (Agrophila) 9124
felina (Herrich-Schäffer, 1868) (Emmelia)
mata (Druce, 1898) (Agrophila)
phaenna (Druce, 1889) (Agrophila)
trigridula (Herrich-Schäffer, 1868) (Emmelia)

93 1385 S. guttata Grote, 1875 (Spragueia) 9125

93 1386 S. onagrus (Guenée, 1852) (Agrophila) 9126

93 1387 S. leo (Guenée, 1852) (Agrophila) 9127

93 1388 S. jaguaralis Hampson, 1910 (Spragueia) 9128

93 1389 S. funeralis Grote, 1881 (Spragueia) 9129

93 1390 S. obatra (Morrison, 1875) (Tarache) 9130
plumbifimbriata Grote, 1877 (Spragueia)
velata (Strecker, 1898) (Agrophila)

93 1391 S. apicalis (Herrich-Schäffer, 1868) (Emmelia) 9131
accepta (Edwards, 1881) (Fruva)
apicella (Grote, 1872) (Emmelia)
obliquella (Strand, 1912) (Heliocontia)
trichostrota (Meyrick, 1913) (Mnesipyrga)
truncatula (Zeller, 1873) (Agrophila)

93 1392 S. margana (Fabricius, 1794) (Pyralis) 9132
canofusa Hampson, 1898 (Spragueia)
cuviana (Fabricius, 1798) (Pyralis)
inornata Grote, [1883] 1882 (Spragueia)
ochracea (Möschler, 1890) (Emmelia)
rudisana (Walker, 1865) (Agrophila)
sordida Grote, 1883 (Spragueia)
subapicana (Walker, 1863) (Grapholita)
tarasca Schaus, 1904 (Spragueia)
variegata (Möschler, 1890) (Emmelia)

Tribe CHAMAECLEINI Keegan & Wagner, 2019

NOTE: Systematic placement and generic composition follows Keegan et al. (2019, 2021).

Genus "AZENIA" Grote, [1883] 1882 PROV. PL.

93 1392.1 A. virida (Barnes & McDunnough, 1916) (Stiriodes) mispl. 9728
NOTE: Keegan et al. (2021) found that this species was misplaced in *Azenia*, but proper generic placement has yet to be determined.

Genus ALEPTINOIDES Barnes & McDunnough, 1912

931392.2 A. ochrea Barnes & McDunnough, 1912 (Aleptinoides) 9839
haematostica (Dyar, 1923) (Oslaria)

Genus CHAMAECLEA Grote, 1883
ID INFO: Poole (1995).
CHAMOCLEA; Hill, 1924 missp.

931392.3 C. pernana (Grote, 1881) (Chariclea) 9789
931392.4 C. basiochrea Barnes & McDunnough, 1916 (Chamaeclea) 9790
mapensa Dyar, 1919 (Chamaeclea)

Genus HEMIOSLARIA Barnes & Benjamin, 1924
ID INFO: Poole (1995).

931392.5 H. pima Barnes & Benjamin, 1924 (Hemioslaria) 9824

Genus HEMINOCLOA Barnes & Benjamin, 1924
ID INFO: Poole (1995).

931392.6 H. mirabilis (Neumoegen, 1884) (Basilodes) 9735

Genus THURBERIPHAGA Dyar, 1920
ID INFO: Poole (1995).

931392.7 T. diffusa (Barnes, 1904) (Alaria) 9817
catalina Dyar, 1920 (Thurberiphaga)

Subfamily PANTHEINAE Smith, 1898
ID INFO: Schmidt & Anweiler (2020).

Genus ARCTIOPTERA Anweiler & Schmidt, 2020

931392.8 A. cavillator (Walker, 1856) (Dipthera) [NEW]
bivaria (Walker, 1856) (Dipthera)
decora (Morrison, 1875) (Charadra) *[9187]*
felina (Druce, 1898) (Lichnophora)
flavescens (Draudt, 1924) (Lichnophora)
gracilis (Swinhoe, 1900) (Moma)
reducta (Draudt, 1924) (Lichnophora)

Genus NEOPANTHEA Anweiler & Schmidt, 2020

931393 N. apanthea (Anweiler, 2009) (Panthea) [NEW]

Genus PANTHEA Hübner, 1820
AUDELA Walker, 1861
ELATINA Duponchel, 1845
PLATYCERURA Packard, 1864

Panthea gigantea group Schmidt & Anweiler, 2020

931394 P. judyae Anweiler, 2009 (Panthea) [NEW]
931395 P. gigantea (French, 1890) (Platycerura) 9181

Panthea furcilla group Schmidt & Anweiler, 2020

931396 P. furcilla (Packard, 1864) (Platycerura) 9182
ssp. a. furcilla (Packard, 1864) (Platycerura)
atrescens McDunnough, 1942 (Panthea)
centralis McDunnough, 1942 (Panthea)
pallescens McDunnough, 1937 (Panthea) *[9183]*
ssp. b. australis Anweiler, 2009 (Panthea)
931397 P. greyi Anweiler, 2009 (Panthea) [NEW]

Panthea acronyctoides group Schmidt & Anweiler, 2020

931398 P. acronyctoides (Walker, 1861) (Audela) 9177
ssp. a. acronyctoides (Walker, 1861) (Audela)
albosuffusa McDunnough, 1937 (Panthea)
leucomelana Morrison, 1875 (Panthea)
ssp. b. nigra Anweiler, 2009 (Panthea)
931399 P. virginarius (Grote, 1880) (Biston) 9178
angelica (Dyar, 1921) (Diphthera) *[9180]*
portlandia Grote, 1896 (Panthea) *[9179]*
suffusa McDunnough, 1942 (Panthea)

Genus MELENETA Smith, 1908
ZAZUNGA Dyar, 1911

931399.5 M. antennata Smith, 1908 (Meleneta) 9191
moes (Dyar, 1920) (Zazunga)
opinor (Dyar, 1910) (Zazunga)

Genus COLOCASIA Ochsenheimer, 1816
CALOCASIA; Hampson, 1913 missp.
COLOCASIODES Matsumura, 1931
DEMAS Stephens, 1829
LEPTOSTOLA Billberg, 1820
PHINECA Walker, 1856

931400 C. flavicornis (Smith, 1884) (Demas) 9184
electa (Smith, 1911) (Demas)
infanta (Smith, 1911) (Demas)
931401 C. propinquilinea (Grote, 1873) (Charadra) 9185

Genus SEMIXANTHIA Anweiler & Schmidt, 2020

931404 S. franclemonti (Anweiler & Schmidt, 2010) (Charadra) [NEW]
931405 S. tapa (Anweiler & Schmidt, 2010) (Charadra) [NEW]
pata of authors; (not Druce, 1894) (Trisuloides) misappl. *[9188]*

Genus PSEUDOPANTHEA McDunnough, 1942

931405.5 P. palata (Grote, 1880) (Charadra) 9186
egua (Dyar, 1922) (Diphthera)
utahensis McDunnough, 1942 (Pseudopanthea)

Genus CHARADRA Walker, 1865
ID INFO: Schmidt & Anweiler (2010, 2020).

931405.6 C. dispulsa Morrison, 1875 (Charadra) 9190
931406 C. deridens (Guenée, 1852) (Diphtera) 9189
ssp. a. deridens (Guenée, 1852) (Diphtera)
circulifera (Walker, 1857) (Acronycta)
contigua Walker, 1865 (Charadra)
corylina (Martyn, 1797) (Phalaena)
fumosa Draudt, 1924 (Charadra)
nigrosuffusana Strand, 1917 (Charadra)
sudena Smith, 1908 (Charadra)
ssp. b. ingenua Smith, 1906 (Charadra) [9189.1]
931407 C. moneta Schmidt & Anweiler, 2010 (Charadra) [NEW]

Subfamily RAPHIINAE Beck, 1996
ID INFO: Schmidt & Anweiler (2014, 2020).

Genus RAPHIA Hübner, 1821
ANODONTA Rambur, 1858
CERTILA Walker, 1865
SALIGENA Walker, 1865

931412 R. frater Grote, 1864 (Raphia) 9193
ssp. a. frater Grote, 1864 (Raphia)
personata (Walker, 1865) (Saligena)
ssp. b. abrupta Grote, 1864 (Raphia) [9192]
flexuosa (Walker, 1865) (Certila)
ssp. c. piazzi (Hill, 1927) (Paphia [sic]) [9194]
ssp. d. coloradensis Putnam-Cramer, 1886 (Raphia) [9195]
pallula Edwards, 1886 (Raphia) *[9197]*
ssp. e. cinderella Smith, 1903 (Raphia) [9198]
ssp. f. elbea Smith, 1908 (Raphia) [9196]

Subfamily BALSINAE Grote, 1896
ID INFO: Schmidt & Anweiler (2020).

Genus BALSA Walker, 1860
ASISYRA Grote, 1873
GARGAZA Walker, 1866
NOLAPHANA Grote, 1873

931417 B. malana (Fitch, 1856) (Brachytaenia) 9662
obliquifera Walker, 1860 (Balsa)
931418 B. tristrigella (Walker, 1866) (Gargaza) 9663
zelleri (Grote, 1873) (Asisyra)
931419 B. labecula (Grote, 1880) (Nolaphana) 9664

Subfamily ACRONICTINAE Harris, 1841

ID INFO: Schmidt & Anweiler (2020).

Genus POLYGRAMMATE Hübner, 1818
COMACHARA Franclemont, 1939
DIPHTHERA Hübner, 1808
GRAMMOPHORA Guenée, 1852
POLYGRAMMATA; Hampson, 1908 emend.

93 1419.31 P. hebraeicum Hübner, 1818 (Polygrammate) 9285
93 1419.32 P. cadburyi (Franclemont, 1939) (Comachara) 8104

Genus HARRISIMEMNA Grote, 1873

93 1419.4 H. trisignata (Walker, 1856) (Grammophora) 9286
sexguttata (Harris, 1869) (Notodonta)

Genus CERMA Hübner, 1818
ACHATIA Hübner, 1808
CHAMYRIS Guenée, 1852
PACHYCERMA Van Duzee, 1897

93 1419.51 C. cora Hübner, 1818 (Cerma) 9061
festa (Guenée, 1852) (Chariptera)
93 1419.52 C. cerintha (Treitschke, 1826) (Acontia) 9062
obscura (Dyar, 1923) (Chamyris)
sirius (Barnes & McDunnough, 1918) (Chamyris) *[9063]*

Genus CHLORONYCTA Schmidt & Anweiler, 2014

ID INFO: Schmidt et al. (2014), Schmidt & Anweiler (2020).

93 1419.6 C. tybo (Barnes, 1904) (Moma) 9283

Genus ACRONICTA Ochsenheimer, 1816
ACRONYCTA; Treitschke, 1825 emend.
ACRONYCTIA; Meigen, 1831 missp.
APATELA; Stephens, 1829 missp.
APATELAE Ochsenheimer, 1816
APATELE Hübner, 1806
APATELE Hübner, 1818
CUSPIDIA Chapman, 1890
PSEUDEPUNDA Butler, 1890
PSEUDOPUNDA; Hampson, 1909 missp.
SEMAPHORA Guenée, 1841
VIMINIA Chapman, 1890

Subgenus JOCHEAERA Hübner, [1820]

93 1419.71 A. funeralis (Grote & Robinson, 1866) (Acronycta) 9221
fuscalis Barnes & Benjamin, 1924 (Acronicta)
93 1419.72 A. perblanda Ferguson, [1989] (Acronicta) [NEW]

Subgenus DOSSENA Schmidt & Anweiler, 2020

93 1419.73 A. retardata (Walker, 1861) (Micrococelia) 9251
caesarea Smith, 1905 (Acronicta) *[9252]*
dissecta (Grote & Robinson, 1870) (Acronycta)

Subgenus MAGNICOSTA Schmidt & Anweiler, 2020

93 1419.74 A. atristrigatus (Smith, 1900) (Anytus) 9232
93 1419.75 A. nigrosuffusa Schmidt & Anweiler, 2020 (Acronicta) [NEW]
NOTE: Previously listed as "*Acronicta* species near *theodora*" by Lafontaine & Schmidt (2011), and as "*A. theodora* (nec. Schaus)" by Franclemont & Todd (in Hodges et al. 1983).
theodora of authors; (not Schaus, 1894) (Acronycta) misappl. *[9233]*
93 1419.76 A. beameri Todd, 1958 (Acronicta) 9234

Subgenus LEPITOREUMA Grote, 1873
TRICHOLONCHE Grote, 1896

Acronicta afflicta group Schmidt & Anweiler, 2020

93 1419.77 A. afflicta (Grote, 1864) (Acronycta) 9254
schmalzriedi Lemmer, 1937 (Acronicta)
93 1419.78 A. marmorata (Smith, 1897) (Acronycta) 9256
93 1419.79 A. brumosa (Guenée, 1852) (Acronycta) 9255
persuasa (Harvey, 1875) (Apatela)
93 1419.8 A. liturata (Smith, 1897) (Acronycta) [NEW]
93 1419.81 A. wiklei Schmidt & Anweiler, 2020 (Acronicta) [NEW]

Acronicta increta group Schmidt & Anweiler, 2020

93 1419.82 A. albarufa (Grote, 1874) (Acronycta) 9216
ssp. a. albarufa (Grote, 1874) (Acronycta)
walkeri (Andrews, 1877) (Acronycta)
ssp. b. exempta (Dyar, 1922) (Acronycta) [9217]
93 1419.83 A. ovata (Grote, 1873) (Acronycta) 9243
93 1419.84 A. exilis (Grote, 1874) (Acronycta) 9242
93 1419.85 A. immodica Schmidt & Anweiler, 2020 (Acronicta) [NEW]
NOTE: Prior to its description in 2020, this species was treated within the concept of *A. modica*.
93 1419.86 A. modica (Walker, 1856) (Acronycta) 9244
haesitata (Grote, 1882) (Apatela) *[9245]*
93 1419.87 A. increta (Morrison, 1875) (Acronycta) 9249
inclara (Smith, 1900) (Acronycta) *[9250]*
inconstans (Smith, 1911) (Acronycta)
93 1419.88 A. cryptica Schmidt & Anweiler, 2020 (Acronicta) [NEW]
93 1419.89 A. tristis (Smith, 1911) (Acronycta) 9247

Subgenus ACRONICTA Ochsenheimer, 1816
APATELE Hübner, 1822
ARCTOMYSCIS Hübner, [1820]
COMETA Sodoffsky, 1837
MEGACRONYCTA Grote, 1873

Acronicta americana group Schmidt & Anweiler, 2020

93 1420 A. rubricoma (Guenée, 1852) (Acronycta) 9199
93 1421 A. americana (Harris, 1841) (Apatela) 9200
acericola (Guenée, 1852) (Acronycta)
eldora (Smith, 1905) (Acronycta)
obscura (Edwards, 1886) (Apatela)
93 1422 A. hastulifera (Smith, 1797) (Phalaena) 9201
93 1423 A. insita (Walker, 1856) (Acronycta) 9202
dactylina (Grote, 1874) (Acronycta) *[9203]*
denvera (Smith, 1905) (Acronycta)
hesperida (Smith, 1897) (Acronycta) *[9204]*
93 1423.1 A. tota (Grote, 1879) (Apatela) 9210

Acronicta vulpina group Schmidt & Anweiler, 2020

93 1425 A. lepusculina (Guenée, 1852) (Acronycta) 9205
canadensis (Smith & Dyar, 1898) (Acronycta)
chionochroa (Hampson, 1909) (Acronycta)
cinderella (Smith, 1897) (Acronycta)
cretata (Smith, 1897) (Acronycta)
felina (Grote, 1879) (Apatela)
frigida (Smith, 1897) (Acronycta)
pacifica (Smith, 1897) (Acronycta)
populi (Riley, 1870) (Acronycta)
similana (Smith, 1905) (Acronycta)
tonitra (Smith, 1908) (Acronycta)
transversata (Smith, 1897) (Acronycta)
93 1426 A. cyanescens (Hampson, 1909) (Acronycta) [NEW]
amicora (Smith, 1911) (Acronycta)
metra (Smith, 1911) (Acronycta)
turpis (Smith, 1911) (Acronycta)
93 1427 A. vulpina (Grote, 1883) (Apatela) [NEW]
cassinoi (Barnes & Benjamin, 1926) (Apatela)
cretatoides (Benjamin, 1935) (Apatela)
leporina of authors; (not Linnaeus, 1758) (Phalaena) misappl. *[9206]*
moesta (Dyar, 1904) (Apatela)
sancta (Edwards, 1888) (Apatela)

Subgenus HYBOMA Hübner, [1820]
MICROCOELIA Guenée, 1852
PARAVIMINIA Beck, 1996

93 1427.1 A. fragilis (Guenée, 1852) (Micrococelia) 9241
atrior Franclemont, 1938 (Acronicta)
fragiloides (Barnes & Benjamin, 1924) (Apatela)
minella (Dyar, 1898) (Apatela)
spectans (Walker, 1861) (Bryophila)
93 1427.2 A. heitzmani Covell & Metzler, 1992 (Acronicta) [NEW]

Subgenus AGRIOPODES Hampson, 1908

Acronicta tritona group Schmidt & Anweiler, 2020

93 1427.3 A. vinnula (Grote, 1864) (Microcoelia) 9225
ssp. a. vinnula (Grote, 1864) (Microcoelia)
percolens Franclemont, 1938 (Acronicta)
ssp. b. floridensis Schmidt & Anweiler, 2020 (Acronicta)
ssp. c. paupercula (Grote, 1874) (Acronycta) [9222]
lepetita (Smith, 1908) (Acronycta) *[9223]*
93 1427.4 A. mansueta (Smith, 1897) (Acronycta) 9218
93 1427.5 A. parallela (Grote, 1879) (Apatela) 9215
93 1432 A. tritona (Hübner, 1818) (Triaena) 9211
93 1432.1 A. fallax (Herrich-Schäffer, 1854) (Diphthera) 9281
NOTE: Moved from *Agriopodes* and the P-No. changed from 931494 to 931442 by Lafontaine & Schmidt (2013a).
geminata (Smith, 1903) (Moma) *[9282]*
93 1433 A. grisea (Walker, 1856) (Acronycta) 9212
pudorata (Morrison, 1875) (Acronycta)
revellata (Smith, 1897) (Acronycta)
tartarea (Smith, 1903) (Acronycta) *[9213]*
93 1434 A. falcula (Grote, 1877) (Apatela) 9214

Acronicta clarescens group Schmidt & Anweiler, 2020

93 1434.1 A. valliscola Blanchard, 1968 (Acronicta) 9239
93 1434.2 A. clarescens (Guenée, 1852) (Acronycta) 9246
centriferruginea Strand, 1916 (Acronicta)
prunata (Barnes & Benjamin, 1924) (Apatela)
pruni (Harris, 1869) (Acronycta) *[9240]*
smithii (Butler, 1893) (Acronycta)
93 1434.3 A. thoracica (Grote, 1880) (Apatela) 9230
93 1434.4 A. strigulata (Smith, 1897) (Acronycta) 9231

Acronicta hasta group Schmidt & Anweiler, 2020

93 1434.5 A. hamamelis (Guenée, 1852) (Acronycta) 9248
guyasuta (Chermock & Chermock, 1940) (Apatela)
subochrea (Grote, 1874) (Acronycta) *[9253]*
93 1434.6 A. lithospila (Grote, 1874) (Acronycta) 9266
93 1434.7 A. innotata (Guenée, 1852) (Acronycta) 9207
graefii (Grote, 1864) (Diphthera)
griseor (Dyar, 1904) (Apatela)
93 1434.8 A. betulae (Riley, 1884) (Acronycta) 9208
93 1441 A. quadrata (Grote, 1874) (Acronycta) 9224
93 1441.1 A. radcliffei (Harvey, 1875) (Apatela) 9209
vancouverensis Strand, 1916 (Acronicta)
93 1441.2 A. hasta (Guenée, 1852) (Acronycta) 9229
furcifera (Guenée, 1852) (Acronycta) *[9228]*
manitoba (Smith, 1897) (Acronycta)
wanda (Buchholz, 1917) (Acronycta)
93 1441.3 A. interrupta (Guenée, 1852) (Acronycta) 9237
elisabeta (Smith, 1907) (Acronycta)
elizabeta; Barnes & McDunnough, 1917 (Acronicta) missp.
occidentalis (Grote & Robinson, 1866) (Acronycta)
sagittaria (Harris, 1869) (Acronycta)
93 1444 A. laetifica (Smith, 1897) (Acronycta) 9227
93 1444.1 A. spinigera (Guenée, 1852) (Acronycta) 9235
harveyana (Grote, 1875) (Apatela)
93 1444.2 A. superans (Guenée, 1852) (Acronycta) 9226
superba Franclemont, 1938 (Acronicta)
93 1444.3 A. morula (Grote & Robinson, 1868) (Acronycta) 9236
columboides Franclemont, 1938 (Acronicta)
ulmi (Harris, 1869) (Acronycta)
93 1444.4 A. lobeliae (Guenée, 1852) (Acronycta) 9238
grotei (Butler, 1893) (Acronycta)
telum (Guenée, 1852) (Acronycta)
93 1444.5 A. texana Schmidt & Anweiler, 2020 (Acronicta) [NEW]
93 1444.6 A. connecta (Grote, 1873) (Acronycta) 9219
albina McDunnough, 1940 (Acronicta)
rapidan (Dyar, 1912) (Apatela) *[9220]*
93 1448 A. browni Mustelin & Leuschner, 2000 (Acronicta) [NEW]

Subgenus SIMYRA Ochsenheimer, 1816
ABLEPHARON Grote, 1873
ANEUVIMINIA Beck, 1996
ARSILONCHE Lederer, 1857
ASEMA Sodoffsky, 1837
CHAMAEPORA Warren, 1909
CLIDIA Boisduval, [1837]
CNEPHATA Billberg, 1820
EOGENA Guenée, 1852
EULONCHE Grote, 1873
EUVIMINIA Beck, 1996
MASTIPHANES Grote, 1882
MEROLONCHE Grote, 1882
OMMATOSTOLIDEA Benjamin, 1933
OXICESTA Hübner, [1819]
PARASIMYRA Beck, 1996
PHARETRA Hübner, [1820]
PHILORGYIA Grote, 1896
SIYMRA; Warren, 1912 missp.
TRANSSIMYRA Beck, 1996

Acronicta impleta group Schmidt & Anweiler, 2020

93 1474 A. impleta (Walker, 1856) (Acronycta) 9257
illita (Smith, 1897) (Acronycta)
krautwormi (Chermock, 1927) (Apatela)
luteicoma (Grote & Robinson, 1870) (Acronycta)

Acronicta auricoma group Schmidt & Anweiler, 2020

93 1477 A. impressa (Walker, 1856) (Acronycta) 9261
NOTE: This species is very similar to the Palaearctic *A. auricoma*, and some Nearctic populations currently attributed to *A. impressa* may prove to be more closely aligned to *A. auricoma* (Schmidt & Anweiler 2020). At one time, *A. auricoma* was thought to be introduced to NL (Franclemont & Todd, in: Hodges et al. 1983), but those records have been redetermined as *A. impressa*.
ssp. a. impressa (Walker, 1856) (Acronycta)
acla (Benjamin, 1933) (Apatela) *[9262]*
auricoma of authors; (not Fabricius, 1787) (Noctua) misappl. *[9260]*
distans (Grote, 1879) (Apatela) *[9263]*
emaculata (Smith, 1897) (Acronycta)
fasciata (Walker, 1856) (Acronycta)
lemmeri (Chermock & Chermock, 1940) (Apatela)
scintillans Franclemont, 1938 (Acronicta)
verrilli; Franclemont & Todd, 1983 (Acronicta) emend.
verrillii (Grote & Robinson, 1870) (Acronycta)
ssp. b. dolorosa (Dyar, 1904) (Acronycta)

Acronicta menyanthidis group Schmidt & Anweiler, 2020

93 1477.1 A. menyanthidis (Esper, [1789]) (Phalaena) H [NEW]
fennica de Lattin, 1940 (Acronicta)
menyanthidis (Vieweg, 1790) (Noctua)
obsoleta (Tutt, 1891) (Acronycta)
scotica (Tutt, 1888) (Acronycta)
suffusa (Tutt, 1891) (Acronycta)

Acronicta insularis group Schmidt & Anweiler, 2020

93 1477.2 A. insularis (Herrich-Schäffer, 1868) (Tapinostola) [NEW]
albovenosa of authors; (not Goeze, 1781) (Phalaena) misappl.
evanida (Grote, 1873) (Leucania)
fumosum (Morrison, 1874) (Ablepharon)
henrici (Grote, 1873) (Leucania) *[9280]*
julitae (Benjamin, 1933) (Ommatostolidea)
unifacta (Dyar, 1912) (Simyra)

Acronicta dentinosa group Schmidt & Anweiler, 2020

93 1477.3 A. dentinosa (Freyer, [1838]) (Simyra) UNVER. I [NEW]
NOTE: This Eurasian species is of uncertain status in NA. It was introduced (to NV) as a biocontrol agent for Leafy Spurge (*Euphorbia esula* L.; Euphorbiaceae). It is not known if it has established persistent populations in NA (Schmidt & Anweiler 2020).
leucaspis (Fischer von Waldheim, 1840) (Cucullia)
tendinosa (Herrich-Schäffer, 1848) (Symira [sic])
zeliha (Kornosor & Lödl, 1991) (Simyra)

Acronicta noctivaga group Schmidt & Anweiler, 2020

93 1477.4 A. noctivaga (Grote, 1864) (Acronycta) 9259
93 1477.5 A. sperata (Grote, 1873) (Acronycta) 9258
speratina (Smith, 1905) (Acronycta)
93 1481 A. barnesii (Smith, 1897) (Acronycta) 9267
93 1482 A. perdita (Grote, 1874) (Acronycta) 9268

931484 A. othello (Smith, 1908) (Acronycta) 9270

Acronicta lupini group Schmidt & Anweiler, 2020

931485 A. oblinita (Smith, 1797) (Phalaena) 9272
arioch (Strecker, 1898) (Acronycta) *[9271]*
insolita (Grote, 1873) (Acronycta)
salicis (Harris, 1869) (Acronycta)

931485.1 A. dolli (Barnes & McDunnough, 1918) (Merolonche) 9277

931489 A. lupini (Grote, 1873) (Acronycta) 9275
atlinensis (Barnes & Benjamin, 1926) (Merolonche) *[9278]*
australis (Mustelin & Leuschner, 2000) (Merolonche)
lupina; McDunnough, 1938 (Acronicta) missp.
ursina (Smith, 1898) (Merolonche) *[9279]*
ursini; Smith, 1911 (Acronicta) missp.

931491 A. spinea (Grote, 1876) (Apatela) 9276

Acronicta longa group Schmidt & Anweiler, 2020

931491.1 A. longa (Guenée, 1852) (Acronycta) 9264
pallidicoma (Grote, 1878) (Apatela)
set (Barnes & Benjamin, 1927) (Apatela)
xyliniformis (Guenée, 1852) (Acronycta)
xylinoides (Guenée, 1852) (Acronycta)

931491.2 A. extricata (Grote, 1882) (Apatela) 9265

931491.3 A. edolata (Grote, 1881) (Apatela) 9269
sagittata McDunnough, 1940 (Acronicta) *[9273]*

Acronicta lanceolaria group Schmidt & Anweiler, 2020

931491.4 A. lanceolaria (Grote, 1875) (Apatela) 9274

931491.5 A. sinescripta Ferguson, [1989] (Acronicta) [NEW]

931491.6E A. megacephala (Denis & Schiffermüller, 1775) (Noctua) EXCL. [NEW]
gasta (Strecker, 1898) (Acronycta) (excl.)
NOTE: The synonym *gasta* was supposedly described from Chicago, IL, but that was deemed erroneous by Schmidt & Anweiler (2020). *Acronicta megacephala* is a European species that does not occur in NA. The synonymy of *gasta* with *megacephala* was established by Barnes & McDunnough (1917) but that was overlooked in the world catalog of Poole (1989).

Subfamily CUCULLIINAE Herrich-Schäffer, [1850]

ID INFO: Poole (1995).

Genus CUCULLIA Schrank, 1802

ID INFO: Poole (1995): also Handfield & Handfield (2010).

ARGYRITIS Hübner, 1821
ARGYROGALEA Hampson, 1906
CALLAENIA Hübner, 1821
COPICUCULLIA Smith, 1894
COPICULLIA; Smith, 1909 missp.
EPINYCTIS Grote, 1882
EUCALIMIA Hübner, 1821
EUDERAEA Hübner, 1821
LATHOSEA Grote, 1881
LOPHIA Sodoffsky, 1837
NYCTEROPHAETA Smith, 1882
RANCORA Smith, 1892
TRIBUNOPHORA Hübner, 1822

Cucullia asteris group Poole, 1995

931504 C. asteroides Guenée, 1852 (Cucullia) 10200

931505 C. montanae Grote, 1882 (Cucullia) 10201
montana; Hampson, 1906 (Cucullia) emend.

931506 C. similaris Smith, 1892 (Cucullia) 10195

931507 C. omissa Dod, 1916 (Cucullia) 10199

931508 C. florea Guenée, 1852 (Cucullia) 10197
indicta Smith, 1904 (Cucullia)
obscurior Smith, 1892 (Cucullia)

931509 C. postera Guenée, 1852 (Cucullia) 10198

Cucullia convexipennis group Poole, 1995

931510 C. lilacina Schaus, 1898 (Cucullia) 10196
agua Barnes, 1904 (Cucullia)

931511 C. eucaena Dyar, 1919 (Cucullia) 10201.1

931512 C. oribac Barnes, 1904 (Cucullia) 10203
aribac; Barnes & McDunnough, 1917 (Cucullia) missp.
arizona Smith, 1905 (Cucullia) *[10204]*
perstrigata Hampson, 1906 (Cucullia)
strigata Schaus, 1898 (Cucullia)

931513 C. convexipennis Grote & Robinson, 1868 (Cucullia) 10202

Cucullia lucifuga group Poole, 1995

931514 C. intermedia Speyer, 1870 (Cucullia) 10194
ssp. a. intermedia Speyer, 1870 (Cucullia)
ssp. b. cinderella Smith, 1892 (Cucullia)

931515 C. umbratica (Linnaeus, 1758) (Phalaena) I [NEW]
NOTE: Introduced from Europe to NA (to Ile de la Madeleine in eastern QC) in about 1998 (Handfield & Handfield 2010).
sonchi Heinemann, 1859 (Cucullia)

Cucullia speyeri group Poole, 1995

931516 C. speyeri Lintner, 1874 (Cucullia) 10190

931517 C. styx Poole, 1995 (Cucullia) [NEW]

931518 C. dorsalis Smith, 1892 (Cucullia) [NEW]

931519 C. laetifica Lintner, 1875 (Cucullia) 10191
cita Grote, 1883 (Cucullia)
hartmanni French, 1888 (Cucullia)

931520 C. lethe Poole, 1995 (Cucullia) [NEW]

931521 C. charon Poole, 1995 (Cucullia) [NEW]

931522 C. alfarata Strecker, 1898 (Cucullia) 10192
phila Smith, 1908 (Cucullia)

931523 C. eccissica Dyar, 1919 (Cucullia) [NEW]

Cucullia antipoda group Poole, 1995

931524 C. antipoda Strecker, 1878 (Cucullia) 10206
ssp. a. antipoda Strecker, 1878 (Cucullia)
propinqua Smith, 1894 (Cucullia)
ssp. b. adopitna (Barnes & Benjamin, 1927) (Copicucullia)
luteodisca (Smith, 1909) (Copicucullia) *[10215]*

931525 C. eurekae Poole, 1995 (Cucullia) [NEW]

931526 C. incresa (Smith, 1910) (Copicucullia) 10212
jemezensis (Dyar, 1922) (Copicucullia) *[10211]*

931527 C. heinrichi (Barnes & Benjamin, 1924) (Copicucullia) 10213

931528 C. astigma (Smith, 1894) (Copicucullia) 10214

931529 C. eulepis (Grote, 1876) (Cleophana) 10209
bistriga Smith, 1892 (Cucullia)
mala (Smith, 1908) (Copicucullia)

931530 C. cucullioides (Barnes & Benjamin, 1923) (Copicucullia) 10210

931531 C. basipuncta (Barnes & McDunnough, 1918) (Copicucullia) 10207

931532 C. mcdunnoughi (Henne, 1940) (Copicucullia) 10208

Cucullia luna group Poole, 1995

931533 C. luna Morrison, 1875 (Cucullia) 10205
magdalena (Hulst, 1882) (Nycterophaeta)
notatella (Grote, 1882) (Epinyctis)

Cucullia strigata group Poole, 1995

931534 C. serraticornis Lintner, 1874 (Cucullia) 10184
matricariae Strecker, 1874 (Cucullia)
solidaginis Strecker, 1874 (Cucullia) *[10187]*

931535 C. comstocki (McDunnough, 1937) (Rancora) 10185

931536 C. strigata (Smith, 1892) (Rancora) 10183
brucei (Smith, 1903) (Rancora) *[10186]*
ketchikana (Barnes & Benjamin, 1922) (Rancora) *[10187.3]*

931537 C. albida Smith, 1894 (Cucullia) 10187.2
albicinerea (Smith, 1903) (Rancora) *[10187.1]*

Cucullia pulla group Poole, 1995

931538 C. pulla (Grote, 1881) (Lathosea) 10180
pullata; (Grote, 1890) (Lathosea) emend.
spaldingi; (Franclemont & Todd, 1983) (Lathosea) missp. *[10182]*
spauldingi (Barnes & Benjamin, 1922) (Lathosea)

931539 C. dammersi (McDunnough, 1935) (Lathosea) 10181

Genus DOLOCUCULLIA Poole, 1995

931540 D. dentilinea (Smith, 1899) (Xylina) 10188
mexicana (Draudt, 1924) (Cucullia)
931540.1 D. poolei Crabo & Hammond, 2018 (Dolocucullia) [NEW]
931541 D. minor (Barnes & McDunnough, 1913) (Cucullia) 10193

Genus OPSIGALEA Hampson, 1906

931542 O. blanchardi Todd, 1966 (Opsigalea) 10216
931542.1 O. ocellata (Walker, 1865) (Nystalea) [NEW]
NOTE: Added to the NA list based on specimens from AZ identified by Noel McFarland going back to at least 2009.

Genus EMARIANNIA Benjamin, 1933

931543 E. cucullidea Benjamin, 1933 (Emariannia) 10217

Subfamily AMPHIPYRINAE Guenée, 1837

NOTE: Composition of this subfamily was considerably restricted as a result of analyses by Keegan et al. (2019, 2021).

Tribe AMPHIPYRINI Guenée, 1837

Genus AMPHIPYRA Ochsenheimer, 1816
PHILOPYRA Guenée, 1837
PYROPHILA Stephens, 1829
SCOTOPHILA Hübner, 1821

931544 A. pyramidoides Guenée, 1852 (Amphipyra) 9638
carbonita Franclemont, 1941 (Amphipyra)
conspersa Riley, 1871 (Amphipyra)
inornata Grote, 1864 (Amphipyra)
931545 A. tragopoginis (Clerck, 1759) (Phalaena) I 9639
NOTE: Introduced from Eurasia (Belton 1988; Crabo & Holden 2020).
distincta Rothschild, 1920 (Amphipyra)
luciola (Hufnagel, 1766) (Phalaena)
repressus (Grote, 1871) (Agrotis)
tragopinus; Gillespie & Bierne, 1982 (Amphipyra) missp.
tragopogonis; [various, no date] (Amphipyra) missp.
turcomana Staudinger, 1888 (Amphipyra)
931546 A. glabella (Morrison, 1875) (Pyrophila) 9640
931547 A. brunneoatra Strand, 1916 (Amphipyra) 9641

Tribe PSAPHIDINI Grote, 1896

Subtribe PSAPHIDINA Grote, 1896

ID INFO: Poole (1995).

Genus PSAPHIDA Walker, 1865
ID INFO: Poole (1995).
COPIPANOLIS Grote, 1874
DICOPIS Grote, 1874
EUTOLYPE Grote, 1874
PSAPHIDIA; Dyar, 1901 missp.

931548 P. resumens Walker, 1865 (Psaphida) 10019
muralis (Grote, 1874) (Dicopis)
viridescens (Walker, 1865) (Cymatophora)
viridiscens; Franclemont & Todd, 1983 (Psaphida) missp.
931549 P. thaxterianus (Grote, 1874) (Dicopis) 10020
931550 P. rolandi (Grote, 1874) (Eutolype) 10014
vernalis (Morrison, 1875) (Copipanolis)
931551 P. grandis (Smith, 1898) (Eutolype) 10013
931552 P. electilis (Morrison, 1875) (Dicopis) 10012
bombyciformis (Smith, 1892) (Eutolype)
depilis (Grote, 1881) (Dicopis)
931553 P. styracis (Guenée, 1852) (Taeniocampa) 10016
borealis (Smith, 1892) (Copipanolis)
cubilis (Grote, 1874) (Copipanolis)
fasciata (Smith, 1892) (Copipanolis)
stigma (Smith, 1890) (Copipanolis)
931554 P. damalis (Grote, 1879) (Dicopis) 10015

Genus PSEUDOCOPIVALERIA Buckett & Bauer, 1966
ID INFO: Poole (1995).

931555 P. sonoma (McDunnough, 1941) (Psaphida) 10017
931556 P. anaverta Buckett & Bauer, 1966 (Pseudocopivaleria) 10018

Genus COPIVALERIA Grote, 1883
ID INFO: Poole (1995).

931557 C. grotei (Morrison, 1874) (Valeria) 10021

Genus BRACHIONYCHA Hübner, 1819
ID INFO: Poole (1995).
ASTEROSCOPUS Boisduval, 1828
BRACHYONIX; Berio, 1966 missp.
PETASIA Stephens, 1829
SELENOSCOPUS Heinemann, 1859

931558 B. borealis (Smith, 1899) (Asteroscopus) 10011

Genus PLEROMELLA Dyar, 1921
ID INFO: Poole (1995).

931559 P. opter Dyar, 1921 (Pleromella) 10026

Genus PROVIA Barnes & McDunnough, 1910
ID INFO: Poole (1995).

931560 P. argentata Barnes & McDunnough, 1910 (Provia) 10025

Subtribe FERALIINA Grote, 1874

Genus FERALIA Grote, 1874
ID INFO: Poole (1995).
ARTHRACHLORA; Hampson, 1906 missp.
ARTHROCHLORA Grote, 1875
MOMAPHANA; Hampson, 1906 missp.
MOMOPHANA Grote, 1875

931561 F. jocosa (Guenée, 1852) (Diphtera) 10005
furtiva Smith, 1909 (Feralia)
jocosides Strand, 1916 (Feralia)
931562 F. deceptiva McDunnough, 1920 (Feralia) 10006
931563 F. major Smith, 1890 (Feralia) 10007
931564 F. comstocki Grote, 1874 (Feralia) 10008
columbiana Smith, 1903 (Feralia)
comstocci; (Hampson, 1906) (Momaphana) emend.
931565 F. februalis Grote, 1874 (Feralia) 10009
931566 F. meadowsi Buckett, 1968 (Feralia) 10010

Genus MIRACAVIRA Franclemont, 1937
MIRACAVERA; McDunnough, 1938 missp.

931567 M. brillians (Barnes, 1901) (Feralia) 9620
931568 M. sylvia (Dyar, 1913) (Momaphana) 9621

Genus PARATRACHEA Hampson, 1908

931569 P. viridescens (Barnes & McDunnough, 1918) (Namangana) 9627

Genus APSAPHIDA Franclemont, 1973
ID INFO: Franclemont (1973b).

931570 A. eremna Franclemont, 1973 (Apsaphida) 10022

Genus VIRIDEMAS Smith, 1908

931571 V. galena Smith, 1908 (Viridemas) 10023

Subtribe NOCLOINA Poole, 1995

Genus OSLARIA Dyar, 1904

931575 O. viridifera (Grote, 1882) (Zotheca) 9791
931576 O. pura Barnes & McDunnough, 1911 (Oslaria) 9792

Genus NOCLOA Smith, 1906
PHAIOECIA Dyar, 1911

931577 N. plagiata Smith, 1906 (Nocloa) 9793
931578 N. rivulosa Smith, 1906 (Nocloa) 9794
931579 N. pallens (Tepper, 1882) (Aedophron) 9795

nesaea (Smith, 1893) (Omia)

93 1580 N. cordova (Barnes, 1907) (Xanthia) 9796
93 1581 N. nanata (Neumoegen, 1884) (Stiria) 9797
macula (Smith, 1891) (Metoponia)
93 1582 N. pilacho (Barnes, 1904) (Hemiceras) 9798
93 1583 N. alcandra (Druce, 1890) (Xanthia) 9799
93 1584 N. aliaga (Barnes, 1905) (Stiria) 9800
93 1585 N. duplicatus (Smith, 1891) (Cirrhophanes) 9801

Genus PARAMIANA Barnes & Benjamin, 1924

93 1586 P. callaisata Blanchard, 1972 (Paramiana) 9802
93 1587 P. smaragdina (Neumoegen, 1884) (Hadena) 9803
93 1588 P. marina (Smith, 1906) (Cerma) 9804
93 1589 P. perissa Nye, 1975 (Paramiana) 9805
laetabilis (Smith, 1899) (Hadena)

Genus EUAMIANA Barnes & Benjamin, 1927
ID INFO (partial): Blanchard & Knudson (1986a).

93 1591 E. endopolia (Dyar, 1912) (Amiana) [NEW]
exculta (Blanchard & Knudson, 1986) (Paramiana)
93 1592 E. contrasta (Barnes & McDunnough, 1910) (Perigea) 9807
93 1593 E. adusta Blanchard & Knudson, 1986 (Euamiana) [NEW]
93 1594 E. dissimilis (Barnes & McDunnough, 1910) (Nocloa) 9808
93 1595 E. torniplaga (Barnes & McDunnough, 1916) (Nocloa) 9809

Genus RUACODES Hampson, 1908

93 1596 R. tela (Smith, 1900) (Hadena) 9810

Genus PETALUMARIA Buckett & Bauer, 1968
PETALUMA Buckett & Bauer, 1965

93 1597 P. californica (Buckett & Bauer, 1965) (Petaluma) 9811

Genus REDINGTONIA Barnes & McDunnough, 1912

93 1598 R. alba Barnes & McDunnough, 1912 (Redingtonia) 9812

Genus LYTHRODES Smith, 1903

93 1600 L. radiatus Smith, 1903 (Lythrodes) 9732
93 1601 L. venatus Smith, 1903 (Lythrodes) 9733
93 1602 L. tripuncta Barnes & McDunnough, 1911 (Lythrodes) 9734

Genus PROTHRINAX Hampson, 1908

93 1603 P. luteomedia (Smith, 1907) (Aleptina) 9829

Genus WALTERELLA Dyar, 1921

93 1604 W. ocellata (Barnes & McDunnough, 1910) (Prothrinax) 9830
eudesmia Dyar, 1921 (Walterella)

Genus EMARGINEA Guenée, 1852
CYATHISSA Grote, 1881
DACIRA Walker, 1858

93 1606 E. percara (Morrison, 1875) (Bryophila) 9718
ochracea (Smith, 1906) (Cyathissa)
pallida (Smith, 1902) (Cyathissa) *[9717]*
quadrate (Smith, 1906) (Cyathissa)
93 1607 E. dulcinea Dyar, 1921 (Emarginea) 9719

Subtribe TRIOCNEMIDINA Poole, 1995

Genus POLICOCNEMIS Benjamin, 1932

93 1608 P. ungulatus Benjamin, 1932 (Policocnemis) 9846

Genus TRIOCNEMIS Grote, 1881

93 1609 T. saporis Grote, 1881 (Triocnemis) 10174

Genus CRIMONA Smith, 1902

93 1610 C. pallimedia Smith, 1902 (Crimona) 10175

Genus OXYCNEMIS Grote, 1882

NOTE: Systematic placement follows Keegan et al. (2019). The genus *Oxycnemis* is a paraphyletic assemblage of species that require assignment to several genera in two different subfamilies, Amphipyrinae and Oncocnemidinae (Keegan et al. 2019). The type-species *O. advena* was placed in Amphipyrinae, thereby associating "true" Oxycnemis with Amphipyrinae: Psaphidini, whereas "*Oxycnemis" gracillinea* was placed in Oncocnemidinae by Keegan et al. (2019). Based on morphological and DNA barcode similarity of the remaining *Oxycnemis* species to those analyzed by Keegan et al. (2019), *Oxycnemis fusimacula* is retained within "true" *Oxycnemis*, and *grandimacula* is placed in "*Oxycnemis*" in the broad sense (Amphipyrinae); *acuna* is closely related to *gracillinea*. To avoid the confusion of two "*Oxycnemis*" genus concepts in two unrelated subfamilies, the Oncocnemidinae species formerly in *Oxycnemis* are here provisionally transferred to *Sympistis*, i.e. *Sympistis acuna* n. comb. and *Sympistis gracillinea* n. comb. The latter two species are indeed closely related to NA *Sympistis*, although the limits of that genus also requires reassessment.

93 1611 O. advena Grote, 1882 (Oxycnemis) 10039
baboquavaria Smith, 1907 (Oxycnemis)
gustis Smith, 1907 (Oxycnemis) *[10045]*
pacifica (Edwards, 1884) (Acopa)
93 1615 O. fusimacula Smith, 1902 (Oxycnemis) 10046

Genus "OXYCNEMIS" Grote, 1882 PROV. PL.

NOTE: According to Poole & Gentili (1996), *grandimacula* is misplaced in *Oxycnemis*, and requires a new genus. See note under *Oxycnemis*.

93 1617 O. grandimacula Barnes & McDunnough, 1910 (Oxycnemis) mispl. 10048
erratica Barnes & McDunnough, 1913 (Oxycnemis) *[10047]*

Genus UNCIELLA Troubridge, 2008

93 1622 U. flagrantis (Smith, 1893) (Oncocnemis) 10112
93 1623 U. primula (Barnes & McDunnough, 1918) (Oncocnemis) 10111

Genus HEMIGROTELLA Barnes & McDunnough, 1918

NOTE: Systematic placement follows Keegan et al. (2019).

93 1637.5 H. argenteostriata Barnes & McDunnough, 1918 (Hemigrotella) 11230

Subfamily STIRIINAE Grote, 1882

NOTE: Raised from subtribe to subfamily status by Keegan et al. (2019).

Tribe ANNAPHILINI Mustelin, 2006

NOTE: Raised from subtribe to tribe status by Keegan et al. (2019), for genus *Annaphila*.

Genus ANNAPHILA Grote, 1873
ID INFO: Rindge & Smith (1952): also Mustelin (2006).

Subgenus PROANNAPHILA Rindge & Smith, 1952

93 1638.1 A. danistica Grote, 1873 (Annaphila) 9850
93 1638.2 A. hennei Rindge & Smith, 1952 (Annaphila) 9851
93 1638.3 A. mera Harvey, 1875 (Annaphila) 9852
ssp. a. mera Harvey, 1875 (Annaphila)
domina Edwards, 1875 (Annaphila)
ssp. b. eremia Rindge & Smith, 1952 (Annaphila)
93 1638.4 A. pustulata Edwards, 1881 (Annaphila) 9853

Subgenus ANNAPHILA Grote, 1873

93 1638.5 A. arvalis Edwards, 1875 (Annaphila) 9854
fletcheri (Smith, 1907) (Brephos)
salicis Edwards, 1881 (Annaphila)
93 1638.6 A. abdita (Rindge & Smith, 1952) (Cosmopterix) 9855
93 1638.7 A. scurlockorum Sala & Mustelin, 2006 (Annaphila) [NEW]
93 1638.8 A. baueri Rindge & Smith, 1952 (Annaphila) 9856
93 1638.9 A. astrologa Barnes & McDunnough, 1918 (Annaphila) 9857
93 1639.1 A. vivianae Sala, 1964 (Annaphila) 9858
93 1639.2 A. pseudoastrologa Sala, 1964 (Annaphila) 9859
93 1639.3 A. olgae Sala, 1964 (Annaphila) 9860
93 1639.4 A. ida Rindge & Smith, 1952 (Annaphila) 9861
93 1639.5 A. divinula Grote, 1878 (Annaphila) 9862
93 1639.6 A. lithosina Edwards, 1875 (Annaphila) 9863
variegata Smith, 1908 (Annaphila)

931639.7 A. miona Smith, 1908 (Annaphila) 9864
931639.8 A. casta Edwards, 1890 (Annaphila) 9865
931639.9 A. depicta Grote, 1873 (Annaphila) 9866
ssp. a. depicta Grote, 1873 (Annaphila)
ssp. b. morula Rindge & Smith, 1952 (Annaphila)
931640.1 A. macfarlandi Buckett & Bauer, 1964 (Annaphila) 9867
931640.2 A. decia Grote, 1875 (Annaphila) 9868
amicula Edwards, 1875 (Annaphila)
germana Edwards, 1875 (Annaphila)
931640.3 A. diva Grote, 1873 (Annaphila) 9869
yosemitensis Strand, 1912 (Annaphila)
931640.4 A. superba Edwards, 1875 (Annaphila) 9870
931640.5 A. spila Rindge & Smith, 1952 (Annaphila) 9871
931640.6 A. evansi Rindge & Smith, 1952 (Annaphila) 9872

Tribe STIRIINI Grote, 1882

ID INFO: Poole (1995).
NOTE: Systematic placement follows Keegan et al. (2019).

Genus FALA Grote, 1875
ID INFO: Poole (1995).

931645 F. ptycophora Grote, 1875 (Fala) [NEW]
ptychophora; Franclemont & Todd, 1983 (Fala) missp.

Genus PLAGIOMIMICUS Grote, 1873
ID INFO: Poole (1995): also Adams & Lafontaine (2009), Crabo et al. (2018).
ANTAPLAGA Grote, 1877
NEOPHAEUS Dyar, 1918
STIBADIUM Grote, 1874

[Plagiomimicus ungrouped]

931646 P. ochoa (Barnes, 1904) (Stibadium) 9740
dollii Smith, 1908 (Plagiomimicus)
931647 P. olvello (Barnes, 1907) (Stibadium) 9742
931648 P. dimidiata (Grote, 1877) (Antaplaga) 9745
931649 P. aureolum (Edwards, 1882) (Stibadium) 9741

Plagiomimicus spumosum complex Poole, 1995

931650 P. heitzmani Poole, 1995 (Plagiomimicus) [NEW]
931651 P. spumosum (Grote, 1874) (Stibadium) 9748
mavina (Barnes & McDunnough, 1910) (Stibadium) *[9749]*
931652 P. caesium (Blanchard & Knudson, 1984) (Stibadium) [NEW]

Plagiomimicus manti group Poole, 1995

931653 P. manti (Barnes, 1904) (Stibadium) 9744
931654 P. curiosum (Neumoegen, 1884) (Stibadium) 9747
931655 P. astigmatosum (Dyar, 1921) (Stibadium) 9746
931656 P. hilli (Barnes & Benjamin, 1923) (Stiria) 9750
caliente (Hill, 1923) (Antaplaga)
931657 P. kathyae Adams, 2009 (Plagiomimicus) [NEW]

Plagiomimicus tepperi group Poole, 1995

931659 P. tepperi (Morrison, 1875) (Schinia) 9755
richii Grote, 1886 (Plagiomimicus)
931659.1 P. yakama Crabo & Wikle, 2018 (Plagiomimicus) [NEW]
ssp. a. yakama Crabo & Wikle, 2018 (Plagiomimicus)
ssp. b. mojave Wikle & Crabo, 2018 (Plagiomimicus)
931660 P. mimica Poole, 1995 (Plagiomimicus) [NEW]

Plagiomimicus pityochromus group Poole, 1995

931661 P. pityochromus Grote, 1873 (Plagiomimicus) 9754
media (Morrison, 1875) (Schinia)
931662 P. triplagiatus Smith, 1890 (Plagiomimicus) 9753
931663 P. expallidus Grote, [1883] 1882 (Plagiomimicus) 9752
931663.1 P. pyralina (Schaus, 1904) (Tarache) [NEW]

Genus CUAHTEMOCA Hogue, 1963
ID INFO: Poole (1995).

931664 C. unicum (Barnes & Benjamin, 1926) (Stibadium) 9743

Genus LINEOSTRIASTIRIA Poole, 1995
ID INFO: Poole (1995).

Lineostriastiria hachita group Poole, 1995

931665 L. hachita (Barnes, 1904) (Antaplaga) 9758
931666 L. sexseriata (Grote, 1881) (Grotella) 9759
931667 L. biundulalis (Zeller, 1872) (Sedenia) 9760
biundulata; (Smith, 1893) (Sedenia) emend.

[Lineostriastiria ungrouped]

931668 L. olivalis (Barnes & McDunnough, 1916) (Stiria) 9757
931669 L. hutsoni (Smith, 1907) (Stibadium) 9756
fuliginosa (Smith, 1907) (Stibadium)

Genus XANTHOTHRIX Edwards, 1878
ID INFO: Poole (1995).

931670 X. neumoegeni Edwards, 1881 (Xanthothrix) 9771
931671 X. ranunculi Edwards, 1878 (Xanthothrix) 9772
albipuncta Barnes & Benjamin, 1925 (Xanthothrix)

Genus CHRYSOECIA Hampson, 1908
ID INFO: Poole (1995).
[9788]
CHICHIMECA Hogue, 1963
CHRYSAECIA; Neave, 1939 missp.
CYPTONYCHIA Druce, 1899
CYPTONYCHIA Hampson, 1900

931672 C. scira (Druce, 1889) (Anthoecia) 9761
benjamini (Hill, 1924) (Chamoclea)
931672.1E C. requies (Dyar, 1909) (Centrartha) EXCL. 9762
NOTE: Poole (1995) could find no verifiable NA records.
931673 C. gladiola (Barnes, 1907) (Chamaeclea) 9763
931674 C. atrolinea (Barnes & McDunnough, 1912) (Antaplaga) [NEW]
dela of authors; (not Druce, 1894) (Acontia) misappl. *[9764]*
hemicrocea (Dyar, 1912) (Antaplaga)
stigmatosa (Dyar, 1912) (Antaplaga)
931675 C. thoracica (Edwards, 1884) (Eulithosia) 9774

Genus BASILODES Guenée, 1852
ID INFO: Poole (1995).
DEOBRIGA Walker, 1869

931676 B. pepita Guenée, 1852 (Basilodes) 9781
chrysopasa (Walker, 1869) (Deobriga)
931677 B. straminea Poole, 1995 (Basilodes) [NEW]
931678 B. chrysopis Grote, 1881 (Basilodes) 9780
catharops Dyar, 1911 (Basilodes)
931678.1E B. inquinatus Hogue, 1963 (Basilodes) EXCL. 9782
NOTE: Poole (1995) could find no verifiable NA records.

Genus HOPLOLYTHRODES Poole, 1995
ID INFO: Poole (1995).

931679 H. arivaca (Barnes, 1907) (Lythrodes) 9770

Genus CIRRHOPHANUS Grote, 1872
ID INFO: Poole (1995).
CIRRHOPHANES; Smith, 1891 missp.

931680 C. dyari Cockerell, 1899 (Cirrophanus [sic]) 9765
931681 C. triangulifer Grote, 1872 (Cirrhophanus) 9766
931682 C. pretiosa (Morrison, 1875) (Chariclea) [NEW]

Genus EULITHOSIA Edwards, 1884
ID INFO: Poole (1995).

931683 E. composita Edwards, 1884 (Eulithosia) 9773
931684 E. discistriga (Smith, 1903) (Lythrodes) 9769
931685 E. plesioglauca (Dyar, 1912) (Antaplaga) 9767
comstocki (Hill, 1924) (Chamoclea)
931686 E. papago (Barnes, 1907) (Cirrophanus) 9768

Genus ANGULOSTIRIA Poole, 1995
ID INFO: Poole (1995).

931687 A. chryseochilus (Dyar, 1909) (Basilodes) [NEW]

Genus STIRIA Grote, 1874
ID INFO: Poole (1995); also Keegan & Wagner (2022).

931688 S. rugifrons Grote, 1874 (Stiria) 9785
931689 S. intermixta Dyar, 1918 (Stiria) [NEW]
931690 S. dyari Hill, 1924 (Stiria) 9786
931690.1 S. brava Keegan & Wagner, 2022 (Stiria) [NEW]
931691 S. blanchardi (Hogue, 1966) (Basilodes) 9783
931692 S. sulphurea Neumoegen, 1882 (Stiria) 9787
demaculata Strand, 1916 (Stiria)
931693 S. satana Poole, 1995 (Stiria) [NEW]
931694 S. consuela Strecker, 1900 (Stiria) 9784

Genus CHALCOPASTA Hampson, 1908
ID INFO: Poole (1995).
RODRIGUESIA Dyar, 1912

Chalcopasta territans group Poole, 1995

931695 C. territans (Edwards, 1884) (Basilodes) 9775
anopis Dyar, 1918 (Chalcopasta)
arianda (Druce, 1889) (Plusia)
arizona (French, 1889) (Plusia)
chalcophanis Dyar, 1918 (Chalcopasta)
931696 C. howardi (Edwards, 1877) (Plusia) 9776
houardi; Hampson, 1910 (Chalcopasta) emend.
ornata (Ottolengui, 1898) (Deva)
931697 C. fulgens Barnes & McDunnough, 1912 (Chalcopasta) 9777
ellica Poole, 1995 (Chalcopasta)

Chalcopasta acema group Poole, 1995

931698 C. acema (Druce, 1889) (Plusia) 9778

Genus NEUMOEGENIA Grote, 1882
ID INFO: Poole (1995).
KALLITRICHIA Ottolengui, 1898
TRICHOCALA Dyar, 1903

931699 N. poetica Grote, 1882 (Neumoegenia) 9737
931699.1E N. coronides (Druce, 1889) (Plusia) EXCL. 9738
NOTE: Poole (1995) could find no verifiable NA records of this species.
931699.2E N. albavena (Ottolengui, 1898) (Kallitrichia) EXCL. 9739
NOTE: Poole (1995) could find no verifiable NA records of this species.

Genus NARTHECOPHORA Smith, 1900
ID INFO: Poole (1995).
NOTE: Systematic placement follows Keegan et al. (2019).

931699.3 N. pulverea Smith, 1900 (Narthecophora) 9731

Genus ARGENTOSTIRIA Poole, 1995
ID INFO: Poole (1995).

931699.4 A. koebelei (Riley, 1893) (Antaplaga) 9779
coebelei; (Hampson, 1910) (Chalcopasta) emend.

Genus BISTICA Dyar, 1912
ID INFO: Poole (1995).

931699.5 B. noela (Druce, 1892) (Mychonia) 9736
noela Dyar, 1912 (Bistica)

Genus CERATHOSIA Smith, 1887
NOTE: Systematic placement follows Wagner et al. (2019); see also *Fota*.

931699.6 C. tricolor Smith, 1887 (Cerathosia) 9064

Genus FOTA Grote, 1882
NOTE: Systematic placement in the Stiriinae follows Keegan et al. (2021), although tribal classification of *Fota* and *Cerathosia* within the Stiriinae is unresolved.

931699.7 F. armata Grote, 1882 (Fota) 9842
931699.8 F. minorata Grote, 1882 (Fota) 9843

Subfamily GROTELLINAE Poole, 1995
NOTE: Raised from subtribe to subfamily, and composition revised, by Keegan et al. (2019).

Genus GROTELLA Harvey, 1875

931700 G. septempunctata Harvey, 1875 (Grotella) 11213
931701 G. harveyi Barnes & Benjamin, 1922 (Grotella) 11214
931702 G. sampita Barnes, 1907 (Grotella) 11215
931703 G. blanca Barnes, 1904 (Grotella) 11216
931704 G. dis Grote, 1883 (Grotella) 11217
931705 G. parvipuncta Barnes & McDunnough, 1912 (Grotella) 11218
931706 G. stretchi Barnes & Benjamin, 1922 (Grotella) 11219
931707 G. vagans Barnes & Benjamin, 1922 (Grotella) 11220
931708 G. binda Barnes, 1907 (Grotella) 11221
931709 G. tricolor Barnes, 1904 (Grotella) 11222
931710 G. soror Barnes & McDunnough, 1912 (Grotella) 11223
931711 G. margueritaria Blanchard, 1968 (Grotella) 11224
931712 G. grisescens (Barnes & McDunnough, 1910) (Antaplaga) 11225
931713 G. olivacea Barnes & McDunnough, 1911 (Grotella) 11226
931714 G. citronella Barnes & McDunnough, 1916 (Grotella) 11227
931715 G. vauriae McElvare, 1950 (Grotella) 11228
931716 G. blanchardi McElvare, 1966 (Grotella) 11229

Genus NEOGROTELLA Barnes & Benjamin, 1922

931717 N. confusa Barnes & Benjamin, 1922 (Neogrotella) 11231
931718 N. spaldingi (Barnes & McDunnough, 1913) (Grotella) emend. 11232
spauldingi; Barnes & McDunnough, 1913 (Neogrotella) orig. missp.
931719 N. mcdunnoughi Barnes & Benjamin, 1922 (Neogrotella) [NEW]
macdunnoughi; McDunnough, 1938 (Neogrotella) missp. *[11233]*

Genus PODAGRA Smith, 1902

931721 P. crassipes Smith, 1902 (Podagra) 9845

Genus GROTELLAFORMA Barnes & Benjamin, 1922

931722 G. lactea (Stretch, 1885) (Cisthene) 9042
calora (Barnes, 1907) (Grotella)

Subfamily METOPONIINAE Herrich-Schäffer, [1851]
NOTE: Systematic placement and composition follows Keegan et al. (2021). Although several family-group names (Cydosiini Kitching & Rawlins, 1999; Azeniini Poole, 1995) are available for potential tribal subdivision of the Metoponiinae, the circumscription of the subfamily as a whole is still too poorly resolved, so no tribes are recognized here.

Genus AZENIA Grote, [1883] 1882

931724 A. obtusa (Herrich-Schäffer, 1854) (Metoponia) 9725
obtusula (Zeller, 1873) (Metoponia)
931725 A. edentata Grote, 1883 (Azenia) 9726
931725.1 A. procida (Druce, 1889) (Metoponia) [NEW]
nepotica (Dyar, 1912) (Stiriodes)
umbria (Dyar, 1898) (Metoponia)
931726 A. perflava (Harvey, 1875) (Metoponia) 9727
931728 A. implora Grote, [1883] 1882 (Azenia) 9729
931729 A. templetonae Clarke, 1937 (Azenia) 9730

Genus TRISTYLA Smith, 1893

931732 T. alboplagiata Smith, 1893 (Tristyla) 10053

Genus SEXSERRATA Barnes & Benjamin, 1922
NOTE: Systematic placement follows Keegan et al. (2021).

931732.5 S. hampsoni Barnes & Benjamin, 1922 (Sexserrata) 9041

Genus METAPONPNEUMATA Möschler, 1890

931732.6 M. rogenhoferi Möschler, 1890 (Metaponpneumata) 9074
daria (Druce, 1898) (Thalpochares)
dariella (Strand, 1916) ([unknown])
darioides (Strand, 1916) ([unknown])

Genus CYDOSIA Duncan [& Westwood], 1841
EGGYNA Walker, 1866
PENTHETRIA Edwards, 1881
TANTURA Kirby, 1892

931732.71 C. aurivitta Grote & Robinson, 1868 (Cydosia) 8999
imitella Stretch, 1873 (Cydosia)
931732.72 C. majuscula (Edwards, 1881) (Penthetria) [NEW]
931732.73 C. nobilitella (Cramer, [1780]) (Phalaena) 9000
brasiliella Guenée, 1879 (Cydosia)
chrysorrhaeella Guenée, 1879 (Cydosia)
cyanella Guenée, 1879 (Cydosia)
graciella Guenée, 1879 (Cydosia)
hilarella (Snellen, 1878) (Prays)
histrio (Fabricius, 1781) (Bombyx)
jamaicensis Cockerell, 1896 (Cydosia)
submutata (Walker, 1866) (Eggyna)
westwoodi Druce, 1897 (Cydosia)
931732.74 C. curvinella Guenée, 1879 (Cydosia) [NEW]
chalybella Guenée, 1879 (Cydosia)
phaedra Druce, 1897 (Cydosia) *[9001]*

Genus AXENUS Grote, 1873
NOTE: Placement in Metaponiinae follows Keegan et al. (2021); its exact position within the subamily is tentative.

931733 A. arvalis Grote, 1873 (Axenus) 9849
amplus Edwards, 1875 (Axenus)
ochraceus Edwards, 1875 (Axenus)

[NOCTUIDAE – GROUP 1 Unplaced to Subfamily]

NOTE: The genera *Tyta* and *Copibryophila* are clearly related to Metoponiinae and Cropiinae but could not be placed to subfamily by Keegan et al. (2021).

Genus TYTA Billberg, 1820
DYSTHYMIA Newman, 1868

931733.1 T. luctuosa ([Denis & Schiffermüller], 1775) (Noctua) I [NEW]
NOTE: Introduced from Europe in 1993 for control of Field Bindweed (*Convolvulus arvensis* L.; Convolvulaceae); it established in USA (UT) by 2007, but Canadian populations are of uncertain status (Winston et al. 2014).
astroites (Geoffroy, in: Fourcroy, 1785) (Phalaena)
italica (Fabricius, 1781) (Noctua)
speciosissima (Bryk, 1940) (Tarache)

Genus COPIBRYOPHILA Smith, 1900

931733.2 C. angelica Smith, 1900 (Copibryophila) 9073

Subfamily CROPIINAE Keegan & Wagner, 2021

Genus CROPIA Walker, 1858
DECELEA Walker, 1858
LISTONIA Möschler, 1886

931733.31 C. connecta (Smith, 1894) (Chytonix) 9622
striata (Druce, 1898) (Dyops)
templada (Schaus, 1906) (Eudipna) *[9623]*
931733.32 C. ruthaea Dyar, 1910 (Cropia) [NEW]
931733.33 C. indigna (Walker, [1858]) (Decelea) [NEW]
NOTE: Addition to the NA fauna by Lafontaine & Schmidt (2015) based on FL specimens. It was misspelled as "*indica*" therein (contributed by Kyhl Austin).
indica; Lafontaine & Schmidt, 2015 (Cropia) missp.
931733.34 C. europs Dyar, 1910 (Cropia) [NEW]
NOTE: Here reported for NA for the first time based on a CUIC specimen collected at East Turkey Creek, 6400 feet, Chiricahua Mountains, Cochise Co., AZ, 28 July 1967, by J. G. Franclemont (contributed by Kyhl Austin).

Subfamily ONCOCNEMIDINAE Forbes & Franclemont, 1954

Genus ANYCTEOLA Barnes & Benjamin, 1929
NOTE: Systematic placement follows Keegan et al. (2021).

931733.4 A. fotelloides (Barnes & McDunnough, 1916) (Stilbia) 9840

Genus SUPRALATHOSEA Barnes & Benjamin, 1924
NOTE: Systematic placement follows Keegan et al. (2021).

931733.51 S. baboquivariensis Barnes & Benjamin, 1924 (Supralathosea) 10024
931733.52 S. pronuba (Barnes & McDunnough, 1916) (Catabena) 10035
nanuscula (Dyar, 1922) (Cucullia)
931733.53 S. obtusa (Smith, 1909) (Cucullia) 10189

Genus LEUCOCNEMIS Hampson, 1908
NOTE: Systematic placement follows Keegan et al. (2019); the genus is likely paraphyletic and in need of revision.

931733.61 L. perfundis (Smith, 1894) (Oxycnemis) 10049
931733.62 L. nivalis (Smith, 1894) (Oxycnemis) 10050
silveroides (Hill, 1924) (Schinia)
931733.63 L. obscurella Barnes & McDunnough, 1916 (Leucocnemis) 10051
931733.64 L. variabilis Barnes & McDunnough, 1918 (Leucocnemis) 10052
alba Barnes & Benjamin, 1923 (Leucocnemis)

Genus CATABENA Walker, 1855
ADIPSOPHANES Grote, 1873
TURBULA Walker, 1869

931765 C. lineolata Walker, 1865 (Catabena) 10033
miscellus (Grote, 1873) (Adipsophanes)
petraea (Walker, 1869) (Turbula)
931766 C. sagittata Barnes & McDunnough, 1913 (Catabena) 10034

Genus CATABENOIDES Poole, 2002
ID INFO (partial): Troubridge (2020).
NOTE: In his revision of *Catabenoides*, Becker (2021) revised the concept of *C. divisa* (Moeschler) from junior synonymy under *C. vitrina* to senior synonymy of *C. insularis* Troubridge. However, some significant taxonomic discrepancies arise with Becker's revised taxon concepts. Foremost, all NA populations were assigned to two widespread species by Becker (2021), but DNA barcode variation indicates that there are likely four or more (see public BOLD data). Furthermore, the FL taxon *insularis* was described as distinct from other NA taxa, also borne out by DNA barcodes, and therefore cannot be a widespread NA – Antillean species (*C. divisa* sensu Becker 2021). Another problem is the synonymy of *insularis* under *divisa* as proposed by Becker (2021). Troubridge (2020) expressly states that a diagnostic trait of *insularis* is the lack of a black longitudinal forewing streak in females, yet the holotype female of insularis is described by Möschler as having the streak. Consequently, we maintain prior taxonomic concepts of the NA *Catabenoides* until these issues can be addressed.

931767 C. vitrina (Walker, 1857) (Laphygma) 10036
divisa (Herrich-Schäffer, 1868) (Callierges) *[10038]*
931767.1 C. insularis Troubridge, 2020 (Catabenoides) [NEW]
NOTE: Prior to its description in 2020, this species was treated under the name *C. divisa*, now a synonym of *C. vitrina*.
931768 C. terminellus (Grote, 1883) (Adipsophanes) 10037
candida (Smith, 1900) (Homohadena)

Genus NEOGALEA Hampson, 1906
ID INFO (partial): Troubridge (2020).

931770 N. sunia (Guenée, 1852) (Xylomyges) 9673
NOTE: Placement in *Spodoptera* by Franclemont & Todd (in Hodges et al. 1983) was a misapplication of the name. See details under *Spodoptera albula*.
braziliensis Hampson, 1906 (Neogalea)
esula (Druce, 1889) (Xylina) *[10032]*
longfieldae Hayes, 1975 (Neogalea)
931770.1 N. caracara Troubridge, 2020 (Neogalea) [NEW]

Genus CALOPHASIA Stephens, 1829
CLEOPHANA Boisduval, 1833
RHABDOPHANA Sodoffsky, 1837

931771 C. lunula (Hufnagel, 1766) (Phalaena) I 10177
NOTE: Introduced from the Palaearctic, as a biocontrol agent of Dalmatian Toadflax (*Linaria dalmatica* (L.) Mill.; Scrophulariaceae).
anatolica Draudt, 1936 (Calophasia)
linariae ([Denis & Schiffermüller], 1775) (Noctua)

Genus PSEUDACONTIA Smith, 1883

931773 P. crustaria (Morrison, 1875) (Tarache) 10172
cansa Smith, 1908 (Pseudacontia) *[10173]*
louisa Smith, 1908 (Pseudacontia) *[10171]*

Genus BEHRENSIA Grote, 1875

931775 B. conchiformis Grote, 1875 (Behrensia) 10178
ssp. a. conchiformis Grote, 1875 (Behrensia)
ssp. b. suffusa Buckett, 1964 (Behrensia)
931776 B. bicolor McDunnough, 1941 (Behrensia) 10179

Genus PLEROMELLOIDA Nye, 1975
PLEROMA Smith, 1891

93 1777 P. conserta (Grote, 1881) (Valeria) 10027
apposita (Smith, 1892) (Pleroma)
obliquata (Smith, 1891) (Pleroma) *[10028]*
smithi (Barnes & Benjamin, 1922) (Pleroma)
93 1778 P. bonuscula (Smith, 1898) (Pleroma) 10029
93 1779 P. arizonata (Barnes & Benjamin, 1922) (Pleroma) 10030
93 1780 P. cinerea (Smith, 1904) (Pleroma) 10031

Genus COPANARTA Grote, 1895

93 1781 C. aurea (Grote, 1879) (Hadena) 10169
nigerrima (Smith, 1903) (Oncocnemis) *[10170]*
93 1782 C. sexpunctata Barnes & McDunnough, 1916 (Copanarta) 10168

Genus STYLOPODA Smith, 1891

93 1783 S. cephalica Smith, 1891 (Stylopoda) 10163
93 1784 S. groteana (Dyar, 1903) (Pseudacontia) 10165
anxia Smith, 1908 (Stylopoda) *[10167]*
93 1785 S. modestella (Barnes & McDunnough, 1918) (Pseudacontia) 10166

Genus SYMPISTIS Hübner, 1823
ID INFO (partial): Troubridge & Crabo (1998), Troubridge (2008), Metzler & Scott-Tracey (2019), Mustelin (2006).
NOTE: The species groups of Troubridge (2008) are not used since they cover only a portion of the species in the genus.
ADITA Grote, 1874
APHARETA Grote, 1901
COPIHADENA Morrison, 1875
HEMISTILBIA Barnes & Benjamin, 1929
HOMOHADENA Grote, 1873
HOMONCOCNEMIS Hampson, 1906
LEPIPOLYS Guenée, 1852
METAHADENA Morrison, 1876
ONCOCNEMIS Lederer, 1853
PHARNACIS; Forbes, 1954 missp.
PHORNACISA Walker, 1862

93 1785.5 S. gracillinea (Grote, 1881) (Oncocnemis) N. COMB. [NEW]
NOTE: Systematic placement follows Keegan et al. (2019); see details in note under *Oxycnemis*.
gracillima; (Franclemont & Todd, 1983) (Oxycnemis) missp. *[10043]*
yuma (Smith, 1907) (Oxycnemis)
93 1785.6 S. acuna (Barnes, 1907) (Oxycnemis) N. COMB. 10044
NOTE: Systematic placement follows Keegan et al. (2019); see details in note under *Oxycnemis*.
adustus (Smith, 1907) (Oxycnemis)
93 1787 S. poliafascies (Dyar, 1910) (Homoncocnemis) 10152
barbara (Barnes & McDunnough, 1915) (Leucocnemis)
93 1788 S. wilsonensis (Hill, 1924) (Oncocnemis) 10110
93 1789 S. polingii (Barnes, 1904) (Oncocnemis) 10103
93 1790 S. bakeri (Dyar, 1905) (Oncocnemis) 10115
baceri; (Hampson, 1906) (Oncocnemis) emend.
93 1791 S. melalutea (Smith, 1899) (Oncocnemis) 10107
93 1792 S. laticosta (Dyar, 1904) (Oncocnemis) 10125
93 1793 S. coprocolor (Troubridge & Crabo, 1998) (Oncocnemis) [NEW]
93 1794 S. terminalis (Smith, 1888) (Oncocnemis) 10085
93 1795 S. corusca (Smith, 1899) (Oncocnemis) 10074
ate (Dyar, 1921) (Pseudanarta)
93 1796 S. sorapis Troubridge, 2008 (Sympistis) [NEW]
93 1797 S. perscripta (Guenée, 1852) (Lepipolys) 10154
93 1798 S. behrensi (Grote, 1874) (Oncocnemis) 10155
93 1799 S. albifasciata (Hampson, 1906) (Oncocnemis) 10076
fasciatus (Smith, 1888) (Oncocnemis)
93 1800 S. saundersiana (Grote, 1876) (Oncocnemis) 10099
93 1801 S. occata (Grote, 1875) (Cleophana) 10101
93 1802 S. umbrifascia (Smith, 1894) (Oncocnemis) 10122
93 1803 S. satanella (Troubridge & Crabo, 1998) (Oncocnemis) [NEW]
93 1804 S. balteata (Smith, 1902) (Oncocnemis) 10091
93 1805 S. aterrima (Grote, 1879) (Oncocnemis) 10164
93 1806 S. apep Troubridge, 2008 (Sympistis) [NEW]
93 1807 S. tenuifascia (Smith, 1888) (Oncocnemis) 10080
mus (Troubridge & Crabo, 1998) (Oncocnemis)
93 1808 S. parvanigra (Blackmore, 1923) (Oncocnemis) 10081
93 1809 S. parvacana (Troubridge & Crabo, 1998) (Oncocnemis) [NEW]
93 1810 S. viriditincta (Smith, 1894) (Oncocnemis) 10108
93 1811 S. tetrops (Dyar, 1904) (Oncocnemis) 10147
93 1812 S. knudsoni Troubridge, 2008 (Sympistis) [NEW]
93 1813 S. khepri Troubridge, 2008 (Sympistis) [NEW]
93 1814 S. min Troubridge, 2008 (Sympistis) [NEW]
93 1815 S. subsimplex (Dyar, 1904) (Oxycnemis) 10041
93 1815.1 S. eleaner Adams, 2018 (Sympistis) [NEW]
93 1816 S. apposita (Barnes & McDunnough, 1918) (Stilbia) 10054
93 1817 S. stabilis (Smith, 1895) (Homohadena) 10062
93 1818 S. induta (Harvey, 1874) (Homohadena) 10060
93 1819 S. punctilinea (Hampson, 1906) (Oncocnemis) 10119
93 1820 S. rayata (Smith, 1908) (Homohadena) [NEW]
NOTE: Originally described as a species, *S. rayata* was listed as a subspecies of *Homohadena badistriga* by Franclemont & Todd (in Hodges et al. 1983). The taxon was transferred to *Sympistis* and treated as a valid species by Troubridge (2008), although the revised status was not expressly stated therein.
93 1821 S. badistriga (Grote, 1872) (Hadena) 10059
93 1821.1 S. tenuistriga (McDunnough, 1940) (Homohadena) [NEW]
93 1822 S. fifia (Dyar, 1904) (Homohadena) 10066
93 1823 S. dinalda (Smith, 1908) (Homohadena) [NEW]
NOTE: Raised from synonymy under *S. infixa* by Troubridge (2008).
infixa of authors; (not Walker, 1856) (Xylophasia) misappl.
NOTE: Historical use of this name applies in many cases to *S. dinalda*, which was once considered to be a subspecies. "True" *S. infixa* is a separate species also occurring in NA.
93 1824 S. kappa (Grote, 1874) (Homohadena) [NEW]
NOTE: Raised from synonymy under *S. infixa* by Troubridge (2008).
retroversa (Morrison, 1875) (Homohadena)
93 1825 S. infixa (Walker, 1856) (Xylophasia) 10065
93 1826 S. incomitata (Harvey, 1875) (Homohadena) 10064
93 1827 S. inconstans (Grote, 1883) (Homohadena) 10061
93 1828 S. rustica (Barnes & McDunnough, 1911) (Homohadena) 10063
93 1829 S. kelsoensis (Robertson & Mustelin, 2006) (Oncocnemis) [NEW]
93 1830 S. intruda (Smith, 1910) (Oncocnemis) 10137
93 1830.1 S. sierrablanca Metzler & Scott-Tracey, 2019 (Sympistis) [NEW]
93 1831 S. iricolor (Smith, 1888) (Oncocnemis) 10092
93 1832 S. simplex (Smith, 1888) (Oncocnemis) 10095
93 1833 S. lachrymosa Troubridge, 2008 (Sympistis) [NEW]
93 1834 S. goedeni (Troubridge & Crabo, 1998) (Oncocnemis) [NEW]
93 1835 S. glennyi (Grote, 1873) (Oncocnemis) 10083
phairi (McDunnough, 1927) (Oncocnemis) *[10084]*
93 1836 S. lepipoloides (McDunnough, 1922) (Oncocnemis) 10082
93 1837 S. tartarea (Troubridge & Crabo, 1998) (Oncocnemis) [NEW]
93 1838 S. baloghi Troubridge, 2008 (Sympistis) [NEW]
93 1839 S. jenniferae Troubridge, 2008 (Sympistis) [NEW]
93 1840 S. osiris Troubridge, 2008 (Sympistis) [NEW]
93 1841 S. isis Troubridge, 2008 (Sympistis) [NEW]
93 1842 S. horus Troubridge, 2008 (Sympistis) [NEW]
93 1843 S. levis (Grote, 1880) (Oncocnemis) 10093
93 1844 S. incubus Troubridge, 2008 (Sympistis) [NEW]
93 1845 S. duplex (Troubridge & Mustelin, 2006) (Oncocnemis) [NEW]
93 1846 S. seth Troubridge, 2008 (Sympistis) [NEW]
93 1847 S. sesmu Troubridge, 2008 (Sympistis) [NEW]
93 1848 S. insanina Troubridge, 2008 (Sympistis) [NEW]
93 1849 S. sanina (Smith, 1910) (Oncocnemis) 10094
93 1850 S. sakhmet Troubridge, 2008 (Sympistis) [NEW]
93 1851 S. ptah Troubridge, 2008 (Sympistis) [NEW]
93 1852 S. jocelynae Troubridge, 2008 (Sympistis) [NEW]
93 1853 S. poliochroa (Hampson, 1906) (Oncocnemis) [NEW]
NOTE: Many historical records of *S. chandleri* refer to *S. poliochroa*; "true" *S. chandleri* is a separate NA species.
chandleri of authors; (not Grote, 1873) (Oncocnemis) misid.
93 1854 S. ibapahensis (Barnes & Benjamin, 1924) (Oncocnemis) 10144

931855 S. extranea (Smith, 1892) (Oncocnemis) 10145
931856 S. utahensis (Barnes & Benjamin, 1924) (Oncocnemis) 10146
931857 S. chandleri (Grote, 1873) (Oncocnemis) 10140
colorado (Smith, 1893) (Oncocnemis) *[10141]*
931858 S. mackiei (Barnes & Benjamin, 1924) (Oncocnemis) 10143
931859 S. cibalis (Grote, 1880) (Oncocnemis) 10124
candicola (Strand, 1916) (Oncocnemis)
931860 S. amenthes Troubridge, 2008 (Sympistis) [NEW]
931861 S. mirificalis (Grote, 1879) (Oncocnemis) 10069
931862 S. euta (Smith, 1903) (Oncocnemis) 10071
931863 S. regina (Smith, 1902) (Oncocnemis) 10073
931864 S. nita (Smith, 1910) (Oncocnemis) 10097
931865 S. augustus (Harvey, 1875) (Oncocnemis) 10096
931866 S. sandaraca (Buckett & Bauer, 1967) (Oncocnemis) 10078
931867 S. hayesi (Grote, 1873) (Oncocnemis) 10072
931868 S. anubis Troubridge, 2008 (Sympistis) [NEW]
931869 S. pudorata (Smith, 1893) (Oncocnemis) 10079
931870 S. melantho (Smith, 1899) (Oncocnemis) 10077
931871 S. acheron Troubridge, 2008 (Sympistis) [NEW]
931872 S. cocytus Troubridge, 2008 (Sympistis) [NEW]
931873 S. rosea (Smith, 1903) (Oncocnemis) 10114
931874 S. nigrocaput (Smith, 1892) (Oncocnemis) 10127
931875 S. riparia (Morrison, 1875) (Oncocnemis) 10135
ssp. a. riparia (Morrison, 1875) (Oncocnemis)
ssp. b. manitoba (McDunnough, 1941) (Oncocnemis)
ssp. c. subterminalis (McDunnough, 1941) (Oncocnemis)
931876 S. aqualis (Grote, 1881) (Oncocnemis) [NEW]
sala (Mustelin, 2006) (Oncocnemis)
931877 S. amun Troubridge, 2008 (Sympistis) [NEW]
931878 S. major (Grote, 1881) (Oncocnemis) [NEW]
deserticola (McDunnough, 1941) (Oncocnemis)
931879 S. richersi Troubridge, 2008 (Sympistis) [NEW]
931880 S. mut Troubridge, 2008 (Sympistis) [NEW]
931881 S. chons Troubridge, 2008 (Sympistis) [NEW]
931882 S. nenun Troubridge, 2008 (Sympistis) [NEW]
931883 S. curvicollis (Grote, 1883) (Oncocnemis) 10139
931884 S. pachet Troubridge, 2008 (Sympistis) [NEW]
931885 S. obscurata (Barnes & McDunnough, 1912) (Oncocnemis) 10136
931886 S. deserta (Smith, 1891) (Homohadena) 10120
simplicia (Smith, 1903) (Oncocnemis) *[10117]*
931887 S. arizonensis (Barnes, 1928) (Oncocnemis) 10106
931888 S. homogena (Grote, 1877) (Oncocnemis) 10104
931889 S. sobek Troubridge, 2008 (Sympistis) [NEW]
931890 S. ra Troubridge, 2008 (Sympistis) [NEW]
931891 S. khem Troubridge, 2008 (Sympistis) [NEW]
931892 S. septu Troubridge, 2008 (Sympistis) [NEW]
931893 S. hathor Troubridge, 2008 (Sympistis) [NEW]
931894 S. columbia (McDunnough, 1922) (Oncocnemis) 10118
931895 S. pallida (Barnes, 1928) (Oncocnemis) [NEW]
NOTE: Raised to species from subspecies status under *S. homogena* by Troubridge (2008).
931896 S. helena (Mustelin, 2006) (Oncocnemis) [NEW]
931897 S. cherti Troubridge, 2008 (Sympistis) [NEW]
931898 S. youngi (McDunnough, 1922) (Oncocnemis) 10116
931899 S. heterogena (Blanchard, 1972) (Oncocnemis) 10105
931900 S. cleopatra Troubridge, 2008 (Sympistis) [NEW]
931901 S. pernotata (Grote, 1883) (Oncocnemis) 10102
931902 S. apis Troubridge, 2008 (Sympistis) [NEW]
931903 S. buchis Troubridge, 2008 (Sympistis) [NEW]
931904 S. fortis (Grote, 1880) (Homohadena) 10068
vorax (Behrens, 1884) (Agrotis)
931905 S. picina (Grote, 1880) (Homohadena) [NEW]
931906 S. chionanthi (Smith, 1797) (Phalaena) 10067
931906.1 S. forbesi Zacharczenko & Wagner, 2014 (Sympistis) [NEW]
931907 S. barnesii (Smith, 1899) (Oncocnemis) 10121
931908 S. chalybdis (Troubridge & Crabo, 1998) (Oncocnemis) [NEW]
931909 S. piffardi (Walker, 1862) (Phornacisa) 10123
atrifasciata (Morrison, 1875) (Metahadena)
931910 S. funebris (Hübner, [1809]) (Noctua) H [NEW]
ssp. a. funebris (Hübner, [1809]) (Noctua)
funesta (Paykull, 1793) (Noctua) preocc. *[10162]*
ssp. b. cocklei (Dyar, 1904) (Homohadena)
coclei; (Hampson, 1906) (Homohadena) emend.
kurodakeana Matsumura, 1927 (Sympistis)
931911 S. dentata (Grote, 1875) (Apatela) 10055
purpurea (McDunnough, 1940) (Apharetra) *[10057]*
pyralis (Smith, 1895) (Acronycta) *[10056]*
931912 S. anweileri Troubridge & Lafontaine, 2008 (Sympistis) [NEW]
931913 S. californiae (McDunnough, 1946) (Apharetra) 10058
931914 S. lacticollis (Smith, 1908) (Oncocnemis) 10126
laticollis; (Rindge, 1955) (Oncocnemis) missp.
931915 S. chorda (Grote, 1880) (Homohadena) 10113
refecta (Smith, 1894) (Oncocnemis)
931916 S. hapi Troubridge, 2008 (Sympistis) [NEW]
931917 S. sokar Troubridge, 2008 (Sympistis) [NEW]
931918 S. dischorda Troubridge, 2008 (Sympistis) [NEW]
931919 S. buto Troubridge, 2008 (Sympistis) [NEW]
931920 S. extremis (Smith, 1890) (Oncocnemis) [NEW]
931921 S. doris Dimock & Troubridge, 2008 (Sympistis) [NEW]
931922 S. astrigata (Barnes & McDunnough, 1912) (Oncocnemis) 10134
931923 S. babi Troubridge, 2008 (Sympistis) [NEW]
931924 S. meadiana (Morrison, 1875) (Oncocnemis) 10098
931925 S. orbicularis (Barnes & McDunnough, 1912) (Oxycnemis) 10040
931926 S. dunbari (Harvey, 1876) (Hadena) 10151
931927 S. definita (Barnes & McDunnough, 1912) (Oxycnemis) [NEW]
931927.1 S. ferrirena Crabo, 2018 (Sympistis) [NEW]
931928 S. wilsoni Barnes & Benjamin, 1924 (Sympistis) 10158
931929 S. lapponica (Thunberg, 1791) (Noctua) H 10157
amissa (Lefèbvre, 1836) (Anarta)
tenebricosa (Möschler, 1877) (Anarta)
931930 S. heliophila (Paykull, 1793) (Noctua) H [NEW]
NOTE: Synonymy of the Nearctic *melaleuca* by Mikkola & Jalas (1979) into a Holarctic concept of *S. heliophila*.
bicycla (Packard, 1867) (Anarta)
leucoptera (Esper, 1798) (Phalaena)
melaleuca (Thunberg, 1791) (Noctua) preocc. *[10156]*
moesta (Hübner, 1808) (Noctua)
penthica (Stichel, 1911) (Anarta)
931931 S. zetterstedtii (Staudinger, 1857) (Anarta) extralim. H [NEW]
NOTE: This species has at times been considered a subspecies of the European species *S. nigrita*. It was most recently raised to full species status by Lafontaine & Schmidt (2013b).
nigrita of authors; (not Boisduval, 1840) (Anarta) misappl.
zetterstedti; Franclemont & Todd, 1983 (Sympistis) emend. *[10159]*
ssp. a. kolthoffi (Aurivillius, 1890) (Anarta) [10160]
besla (Skinner & Mengel, 1892) (Anarta) *[10161]*
labradoris (Staudinger, 1901) (Anarta)
sibirica (Alphéraky, 1895) (Oncocnemis)
931932 S. fasciata (Edwards, 1886) (Perigea) 10100
931933 S. basifugens (Dyar, 1914) (Pseudacontia) 10089
tinkhami (McDunnough, 1933) (Oncocnemis)
931934 S. modesta (McDunnough, 1933) (Oncocnemis) 10090
931935 S. deceptiva (Barnes & Lindsey, 1922) (Oncocnemis) 10088
931936 S. benjamini (Lindsey, 1923) (Oncocnemis) 10087
lindseyi (Draudt, 1924) (Oncocnemis)
punctilinea (Barnes & Lindsey, 1922) (Oncocnemis)
931937 S. linda (Barnes & McDunnough, 1913) (Oncocnemis) 10086
931938 S. sagittata (Barnes & McDunnough, 1916) (Oncocnemis) 10142
931939 S. shirleyae Troubridge, 2008 (Sympistis) [NEW]
931940 S. saxatilis (Troubridge & Crabo, 1998) (Oncocnemis) [NEW]
931941 S. opleri Troubridge, 2008 (Sympistis) [NEW]
931942 S. dayi (Grote, 1873) (Oncocnemis) 10070
931943 S. kelloggii (Edwards, 1875) (Anarta) [NEW]
cellogi; Hampson, 1906 (Sympistis) emend.
exemplaris (Smith, 1894) (Oncocnemis)
kelloggi; (Franclemont & Todd, 1983) (Oncocnemis) emend. *[10075]*
931944 S. atricollaris (Harvey, 1875) (Homohadena) 10128

9391945 S. cottami (Blanchard, 1972) (Oncocnemis) 10129
9391946 S. figurata (Harvey, 1875) (Homohadena) 10130
9391947 S. disfigurata Troubridge, 2008 (Sympistis) [NEW]
9391948 S. pallidior (Barnes, 1928) (Oncocnemis) [NEW]
9391949 S. minor (Barnes, 1928) (Oncocnemis) 10131
9391950 S. greyi (Troubridge & Crabo, 1998) (Oncocnemis) [NEW]
9391951 S. ragani (Barnes, 1928) (Oncocnemis) 10132
9391952 S. semicollaris (Smith, 1909) (Oncocnemis) 10133
9391953 S. collaris Troubridge, 2008 (Sympistis) [NEW]
9391954 S. griseicollis (Grote, 1882) (Oncocnemis) 10148
gerdis (Smith, 1910) (Oncocnemis)
9391955 S. sectilis (Smith, 1894) (Oxycnemis) 10149
9391956 S. sectiloides (Barnes & McDunnough, 1913) (Leucocnemis) 10150
subtilis (Barnes & McDunnough, 1913) (Leucocnemis)
9391957 S. bes Troubridge, 2008 (Sympistis) [NEW]
9391958 S. franclemonti (Blanchard, 1968) (Oxycnemis) 10042
9391959 S. shait Troubridge, 2008 (Sympistis) [NEW]
9391960 S. singularis (Barnes & McDunnough, 1912) (Oncocnemis) 10109
9391961 S. toddi (Blanchard, 1968) (Oncocnemis) 10153
9391962 S. ciliata (Smith, 1900) (Oncocnemis) 10138

Subfamily AGARISTINAE Boisduval, 1833

Genus XEROCIRIS Cockerell, 1904
CIRIS Grote, 1863

9391963 X. wilsonii (Grote, 1863) (Ciris) 9298
vilsoni; Hampson, 1910 (Xerociris) emend.

Genus EUDRYAS Boisduval, 1836
ID INFO (partial): Crabo et al. (2013).
CYPHOCAMPA Harris, 1869
PARATHISANOTIA Kiriakoff, 1977

9391964 E. unio (Hübner, [1831]) (Euthisanotia) 9299
9391965 E. brevipennis Stretch, 1872 (Eudryas) 9300
ssp. a. brevipennis Stretch, 1872 (Eudryas)
ssp. b. bonneville Shepard & Crabo, 2013 (Eudryas)
9391966 E. grata (Fabricius, 1793) (Bombyx) 9301
assimilis Boisduval, 1874 (Eudryas)
cludialis (Martyn, 1797) (Phalaena)

Genus GERRA Walker, 1865
FENARIA Grote, 1882

9391967 G. radicalis Walker, [1865] (Gerra) 9302
adrasta (Druce, 1889) (Diamuna)
9391968 G. sevorsa (Grote, 1882) (Fenaria) 9303
aedessa (Druce, 1889) (Diamuna)
luteomacula Strand, 1916 (Gerra)
meridionalis Draudt, 1919 (Gerra)

Genus GERRODES Hampson, 1908

1969 G. minatea Dyar, 1912 (Gerrodes) 9304

Genus NEOTUERTA Kiriakoff, 1977

9391970 N. hemicycla (Hampson, 1904) (Tuerta) 9305
9391970.1 N. sabulosa (Felder, 1874) (Agarista) [NEW]
NOTE: This species was described from San Francisco, CA, but has been omitted from recent NA checklists. More recently, a specimen collected at Miller Canyon, Cochise Co, AZ by Charles Melton on 1 July 2018 and posted to BugGuide is also this species.
albidisca (Draudt, 1919) (Tuerta)
albiplaga (Draudt, 1919) (Tuerta)
insulica (Hampson, 1909) (Tuerta)
noctuiformis (Möschler, 1890) (Agarista)
9391970.2 N. collectiora (Todd, 1966) (Tuerta) [NEW]

Genus CAULARIS Walker, 1858

9391971 C. lunata Hampson, 1904 (Caularis) 9306

Genus EUSCIRRHOPTERUS Grote, 1866
ID INFO (partial): Troubridge (2020).
COPIDRYAS Grote, 1876
EUSCHIRROPTERUS; Hampson, 1901 missp.
HETERANDRA Herrich-Schäffer, 1866
HORTONIUS Dyar, 1926
LAGUEA; Strand, 1912 missp.
LAQUEA Jordan, 1896

9391972 E. gloveri Grote & Robinson, 1868 (Euscirrhopterus) 9307
euenemus (Dyar, 1926) (Hortonius)
9391973 E. poeyi Grote, 1866 (Euscirrhopterus) [NEW]
disparilis (Herrich-Schäffer, 1866) (Heteranda)
9391974 E. cosyra (Druce, 1896) (Euthisanotia) 9308

Genus PSYCHOMORPHA Harris, 1839

9391975 P. epimenis (Drury, 1782) (Phalaena) 9309
ssp. a. epimenis (Drury, 1782) (Phalaena)
glaucopis Harris, 1839 (Psychomorpha)
ssp. b. euryrhoda Hampson, 1910 (Psychomorpha) [9310]

Genus EUPSEUDOMORPHA Dyar, 1893
EDWARDSIA Neumoegen, 1880
EUEDWARDSIA Kirby, 1892

9391976 E. brillians (Neumoegen, 1880) (Edwardsia) 9311

Genus ALYPIODES Grote, 1883
ID INFO (partial): Gruber et al. (2021).

9391977 A. bimaculata (Herrich-Schäffer, 1853) (Agarista) 9312
crescens (Walker, 1856) (Eusemia)
dugesii Cockerell, 1895 (Alypiodes)
grotei (Boisduval, 1868) (Agarista)
trimaculata; (Boisduval, 1874) (Alypia) emend.
9391977.1 A. flavilinguis Grote, 1883 (Alypiodes) [NEW]
9391978 A. geronimo (Barnes, 1900) (Pseudalypia) 9313

Genus ALYPIA Hübner, 1818
LEUCOSEMIA Ménétriés, 1857

9391979 A. octomaculata (Fabricius, 1775) (Sesia) 9314
ssp. a. octomaculata (Fabricius, 1775) (Sesia)
albomaculata (Stoll, in: Cramer, [1781]) (Phalaena)
bimaculata (Gmelin, in: Linnaeus, [1790]) (Phalaena)
dipsaci Grote & Robinson, 1868 (Alypia) *[9317]*
quadriguttalis Hübner, 1818 (Alypia)
ssp. b. matuta Edwards, 1883 (Alypia) [9315]
9391980 A. wittfeldii Edwards, 1883 (Alypia) 9316
9391981 A. langtoni Couper, 1865 (Alypia) 9318
brannani Stretch, 1872 (Alypia) *[9323]*
hudsonica; Barnes & McDunnough, 1917 (Alypia) missp.
hutsonia Edwards, 1884 (Alypia)
sacramenti Grote & Robinson, 1868 (Alypia)
sacramento; McDunnough, 1938 (Alypia) missp.
9391982 A. ridingsii Grote, 1865 (Alypia) 9319
9391983 A. mariposa Grote & Robinson, 1868 (Alypia) 9320
lunata Stretch, 1872 (Alypia)

Genus ANDROLOMA Grote, 1873

9391984 A. maccullochii (Kirby, 1837) (Alypia) 9321
ssp. a. maccullochii (Kirby, 1837) (Alypia)
ssp. b. lorquinii (Grote & Robinson, 1868) (Alypia)
ssp. c. similis (Stretch, 1872) (Alypia)
conjuncta (Edwards, 1883) (Alypia)
edwardsi; Franclemont & Todd, 1983 (Androloma) emend.
edwardsii (Boisduval, 1874) (Alypia)
9391985 A. disparata (Edwards, 1884) (Alypia) 9322
gracilenta (Graef, 1887) (Alypia)

Subfamily CONDICINAE Poole, 1995

NOTE: Systematic arrangement follows Keegan et al. (2021). Since the circumscription of the subfamily has changed significantly, and the previously recognized tribes Condicini Poole, 1995 and Leuconyctini Poole, 1995 are of uncertain phylogentic status, no tribes are recognized herein.

Genus PERIGEA Guenée, 1852
BAGADA Walker, 1858
PERIGEODES Hampson, 1908
PERIGIA; Smith, 1894 missp.

93 1986 P. xanthioides Guenée, 1852 (Perigea) 9689
trita (Möschler, 1886) (Hadena)
93 1987 P. enixa Grote, 1875 (Perigea) [NEW]
93 1988 P. berinda Druce, 1889 (Perigea) [NEW]
93 1988.1 P. bahamica Hampson, 1908 (Perigea) [NEW]

Genus CONDICA Walker, 1856
ID INFO (partial): Troubridge (2020).
DRAUDTIA Barnes & Benjamin, 1926
MYRTALE Druce, 1891
PLATYSENTA Grote, 1874

93 1989 C. videns (Guenée, 1852) (Leucania) 9690
ssp. a. videns (Guenée, 1852) (Leucania)
atriciliata (Grote, 1874) (Platysenta)
indigens (Walker, 1857) (Nonagria)
meskei (Speyer, 1875) (Caradrina)
ssp. b. albipuncta (Smith, 1902) (Platysenta)
93 1990 C. temecula (Barnes, 1905) (Platysenta) 9691
93 1991 C. discistriga (Smith, 1894) (Platyperigea) 9692
93 1992 C. mobilis (Walker, [1857]) (Perigea) 9693
icole (Grote, 1876) (Perigea)
inclinata (Walker, 1857) (Celaena)
iole; Franclemont & Todd, 1983 (Condica) missp.
niveopicta (Butler, 1878) (Ochria)
plagiata (Walker, 1857) (Celaena)
subaurata (Walker, 1865) (Perigea)
93 1993 C. mersa (Morrison, 1875) (Segetia) 9694
lunata (Barnes & McDunnough, 1916) (Crambodes) *[9708]*
93 1994 C. albolabes (Grote, 1880) (Perigea) 9695
93 1994.1 C. luxuriosa (Dyar, 1926) (Perigea) [NEW]
93 1995 C. vecors (Guenée, 1852) (Perigea) 9696
demittens (Walker, 1858) (Mamestra)
luxa (Grote, 1874) (Perigea)
remissa (Walker, 1857) (Apamea)
93 1996 C. orta (Barnes & McDunnough, 1912) (Perigea) 9697
93 1997 C. concisa (Walker, 1856) (Laphygma) 9698
centralis (Walker, 1857) (Perigea)
consocia (Walker, 1857) (Caradrina)
imbella (Walker, 1858) (Perigea)
laphygmoides (Walker, 1858) (Caradrina)
plumbago (Herrich-Schäffer, 1868) (Perigea)
proxima (Morrison, 1876) (Segetia) *[9701]*
93 1997.1 C. collaris Troubridge, 2020 (Condica) [NEW]
93 1998 C. sutor (Guenée, 1852) (Perigea) 9699
apameoides (Guenée, 1852) (Perigea)
detrecta (Walker, 1865) (Xylina)
ebba (Schaus, 1923) (Perigea)
fabrefacta (Morrison, 1875) (Segetia)
indecisa (Walker, 1857) (Perigea)
otiosa (Walker, 1858) (Perigea)
pauper (Walker, 1858) (Perigea)
paupera (Walker, 1858) (Perigea)
turpis (Guenée, 1852) (Perigea)
93 1999 C. claufacta (Walker, 1857) (Xylina) [NEW]
cervina (Smith, 1900) (Perigea) *[9700]*
clarefacta; Walker, 1858 (Condica) missp.
93 2001 C. punctifera (Walker, [1857]) (Celaena) [NEW]
semifurca (Walker, 1857) (Celaena)
93 2002 C. albigera (Guenée, 1852) (Perigea) 9702
intermittens (Walker, 1858) (Apamea)
93 2003 C. vacillans (Walker, 1858) (Hadena) [NEW]
fidelia (Druce, 1889) (Perigea)
93 2004 C. parista (Schaus, 1921) (Perigea) [NEW]
NOTE: Reported from NA (TX) by Knudson & Bordelon (2004) as *C. pyromphalus*, a misidentification (Lafontaine & Schmidt 2010).
pyromphalus of authors; (not Dyar, 1913) (Perigea) misid.
93 2005 C. hypocritica of authors; (not Dyar, 1907) (Perigea) MISAPPL. 9703
NOTE: This taxon was listed as a valid species annotated by "extralim?" by Franclemont & Todd (in Hodges et al. 1983). NA material treated under this name is an undescribed species near *C. hypocrita*; it was misidentified as *C. subornata* by Knudson & Bordelon (2004).
subornata of authors; (not Walker, 1865) (Perigea) misid.
93 2006.1 C. charada (Schaus, 1906) (Perigea) [NEW]
chardra; Lafontaine & Schmidt, 2011 (Condica) missp.
revellata (Barnes & Benjamin, 1924) (Namangana) *[9704]*
93 2007 C. leucorena (Smith, 1900) (Caradrina) 9705
93 2008 C. andrena (Smith, 1911) (Perigea) 9707
funeralis (Hill, 1924) (Namangana) *[9706]*
93 2010 C. begallo (Barnes, 1905) (Catabena) 9709
93 2011 C. egestis (Smith, 1894) (Adipsophanes) 9710
abalas (Smith, 1905) (Crambodes)
ignota (Barnes & Benjamin, 1924) (Namangana) *[9711]*
93 2013 C. morsa (Smith, 1907) (Perigea) 9712
93 2014 C. cupentia (Cramer, [1779]) (Phalaena) 9713
epopea (Cramer, [1780]) (Phalaena)
infelix (Guenée, 1852) (Perigea)
palpalis Walker, 1856 (Condica)
93 2015 C. confederata (Grote, 1873) (Hadena) 9714

Genus STIBAERA Walker, 1857

93 2016 S. curvilineata Hampson, 1924 (Stibaera) 9715
93 2017 S. thyatiroides (Barnes & Benjamin, 1924) (Perigea) 9716
habrosynoides (Barnes & Benjamin, 1924) ([unknown])

Genus OGDOCONTA Butler, 1891
ID INFO: Metzler et al. (2013); also Crabo (2015).

93 2018 O. cinereola (Guenée, 1852) (Placodes) 9720
atomaria (Walker, 1865) (Miana)
93 2019 O. moreno Barnes, 1907 (Ogdoconta) 9721
93 2020 O. sexta Barnes & McDunnough, 1913 (Ogdoconta) 9722
93 2021 O. altura Barnes, 1904 (Ogdoconta) 9723
93 2021.1 O. satana Metzler, Knudson & Poole, 2013 (Ogdoconta) [NEW]
93 2022 O. tacna (Barnes, 1904) (Caradrina) 9724
93 2022.1 O. margareta Crabo, 2015 (Ogdoconta) [NEW]
93 2023 O. rufipenna Metzler, Knudson & Poole, 2013 (Ogdoconta) [NEW]
lilacina of authors; (not Druce, 1890) (Celoena [sic]) misid.
93 2023.1 O. fergusoni Metzler & Lafontaine, 2013 (Ogdoconta) [NEW]

Genus HOMOPHOBERIA Morrison, 1875
ID INFO (partial): Troubridge (2020).
NEOERASTRIA McDunnough, 1937

93 2024 H. cristata Morrison, 1875 (Homophoberia) 9056
caduca (Grote, 1876) (Eustrotia)
retis (Grote, 1879) (Eustrotia)
93 2024.1 H. australis Troubridge, 2020 (Homophoberia) [NEW]
93 2025 H. apicosa (Haworth, 1809) (Phytometra) 9057
nigritula (Guenée, 1852) (Erastria)
undulifera (Walker, 1857) (Miana)

Genus LEUCONYCTA Hampson, 1908

93 2026 L. diphteroides (Guenée, 1852) (Microcoelia) 9065
obliterata (Grote, 1864) (Microcoelia)
93 2027 L. lepidula (Grote, 1874) (Jaspidia) 9066
ssp. a. lepidula (Grote, 1874) (Jaspidia)
ssp. b. avirida (Smith, 1906) (Bryophila)

Genus DIASTEMA Guenée, 1852
ID INFO (partial): Troubridge (2020).
NIPISTA Walker, 1858

93 2028 D. tigris Guenée, 1852 (Diastema) 9067
lineata (Walker, 1858) (Nipista)
93 2028.1 D. leo Troubridge, 2020 (Diastema) [NEW]
93 2029 D. cnossia (Druce, 1889) (Pseudina) 9068
93 2029.1 D. chuza (Druce, in: Godman & Salvin, 1898) (Pseudina) [NEW]

Genus CRAMBODES Guenée, 1852

93 2030 C. talidiformis Guenée, 1852 (Crambodes) 9661
conjungens (Walker, 1858) (Carvanca)

Genus MICRATHETIS Hampson, 1908
MICROTHETIS; Hampson, 1908 missp.

93 2031 M. triplex (Walker, 1857) (Laphygma) 9644
benjamini Draudt, 1926 (Micrathetis)
contraria (Herrich-Schäffer, 1868) (Galgula)
conviva (Harvey, 1876) (Caradrina)
minuscula (Barnes & McDunnough, 1913) (Athetis)
obscurebrunnea Strand, 1916 (Micrathetis)
obscureobrunnea; McDunnough, 1938 (Micrathetis) missp.
pallidegrisea Strand, 1916 (Micrathetis)
spilomela (Walker, 1865) (Laphygma)
subaquila (Harvey, 1878) (Caradrina)

93 2032 M. costiplaga (Smith, 1908) (Caradrina) 9645

93 2033 M. tecnion Dyar, 1914 (Micrathetis) 9646

Genus FOTELLA Grote, 1882

93 2034 F. notalis Grote, 1882 (Fotella) 9833
cervoides (Barnes & McDunnough, 1912) (Hadenella)
fragosa (Grote, 1883) (Caradrina) *[9836]*
olivia Barnes & McDunnough, 1912 (Fotella) *[9834]*
olivioides Barnes & Benjamin, 1926 (Fotella) *[9835]*

Genus NEOTARACHE Barnes & Benjamin, 1922
NOTE: Systematic placement follows Keegan et al. (2021).
NEOTARCHE; Barnes & Benjamin, 1922 missp.

93 2034.5 N. deserticola Barnes & Benjamin, 1922 (Neotarache) 9058

Genus AIRAMIA Barnes & Benjamin, 1926
NOTE: Systematic placement follows Keegan et al. (2021).

93 2034.6 A. albiocula (Barnes & McDunnough, 1918) (Hoplotarache) 9075

Genus ALEPTINA Dyar, 1902
ID INFO: Todd et al. (1984); also Metzler & Forbes (2011b).
NOTE: Systematic placement follows Keegan et al. (2019).

93 2034.71 A. inca Dyar, 1913 (Aleptina) 9071
texana Barnes & McDunnough, 1913 (Aleptina)

93 2034.72 A. junctimacula Blanchard, 1984 (Aleptina) [NEW]

93 2034.73 A. aleptivoides (Barnes & McDunnough, 1912) (Phyllophila) 9072
xithon (Dyar, 1912) (Paracretonia)

93 2034.74 A. clinopetes (Dyar, 1920) (Bryocodia) [NEW]

93 2034.75 A. arenaria Metzler & Forbes, 2011 (Aleptina) [NEW]

Genus "ALEPTINA" Dyar, 1902 PROV. PL.

93 2034.8 A. semiatra (Smith, 1902) (Acontia) mispl. 9165
NOTE: The species *semiatra* was provisionally placed in *Aleptina* by Lafontaine & Schmidt (2010).

93 2034.81 A. navia (Harvey, 1875) (Telesilla) mispl. 9751
NOTE: Keegan et al. (2021) recognized this species as belonging in the Condicinae, and we place it here pending further research. Lafontaine & Schmidt (2010) placed it provisionally in *Plagiomimicus*.

Subfamily HELIOTHINAE Boisduval, [1828]
ID INFO: Hardwick (1996).

Genus MICROHELIA Hampson, 1908

93 2035 M. angelica (Smith, 1900) (Heliodes) 11056
immacula Strand, 1912 (Microhelia)
restrictalis (Smith, 1900) (Heliodes) *[11057]*

Genus HELIOTHODES Hampson, 1910

93 2036 H. diminutiva (Grote, 1873) (Heliothis) 11058
bifida Strand, 1912 (Heliothodes)
fasciata (Edwards, 1875) (Melicleptria) *[11060]*
joaquin McDunnough, 1946 (Heliothodes) *[11059]*
macromacula Strand, 1912 (Heliothodes)
suffusana Strand, 1912 (Heliothodes)

Genus BAPTARMA Smith, 1904

93 2037 B. felicita Smith, 1904 (Baptarma) 11061

Genus EUTRICOPIS Morrison, 1875

93 2038 E. nexilis Morrison, 1875 (Eutricopis) 11062
elaborata (Edwards, 1875) (Melicleptria)
subcolorata Barnes & McDunnough, 1918 (Eutricopis)

Genus DERRIMA Walker, 1858
PHILOMMA Grote, 1864

93 2039 D. stellata Walker, [1858] (Derrima) 11055
cinocentralis Strand, 1912 (Derrima)
henrietta (Grote, 1864) (Philomma)

Genus PYRRHIA Hübner, 1821

93 2040 P. cilisca (Guenée, 1852) (Heliothis) [NEW]
aconiti Höltzermann, 1902 (Pyrrhia)
adela Lafontaine & Mikkola, 1996 (Pyrrhia)
conspicua (Borkhausen, 1792) (Phalaena)
marginago (Haworth, 1809) (Noctua)
marginata (Fabricius, 1775) (Noctua)
rutilago ([Denis & Schiffermüller], 1775) (Noctua)
tibetana (Moore, 1878) (Hydroecia)
umbra of authors; (not Hufnagel, 1766) (Phalaena) misappl. *[11063]*
umbrago (Esper, 1798) (Phalaena)
vexilliger (Christoph, 1893) (Chariclea)

93 2041 P. exprimens (Walker, 1857) (Heliothis) 11064
angulata Grote, 1874 (Pyrrhia)
stilla Grote, 1879 (Pyrrhia)

93 2042 P. aurantiago (Guenée, 1852) (Xanthia) 11065
differta (Morrison, 1875) (Orthosia)
illinoiensis (French, 1879) (Heliothis)
illiterata Grote, 1874 (Pyrrhia)

Genus PSECTROTARSIA Dognin, 1907
ERYTHROECIA Hampson, 1910

93 2043 P. suavis (Edwards, 1884) (Heliothis) 11066

93 2044 P. hebardi (Skinner, 1917) (Erythroecia) 11067

Genus HELICOVERPA Hardwick, 1965

93 2045 H. zea (Boddie, 1850) (Phalaena) 11068
obsoleta (Fabricius, 1793) (Bombyx)
ochracea Cockerell, 1889 (Helicoverpa)
stombleri (Okumura & Bauer, 1969) (Heliothis) *[11069]*
umbrosus (Grote, 1862) (Heliothis)

93 2045.1 H. armigera (Hübner, 1808) (Noctua) I [NEW]
NOTE: A population of this European species has been established near O'Hare Airport in Chicago, IL since 2019. Prior to that, the species was detected in FL (Manatee County: Bradenton) in 2015, but appears not to have become established there (USDA 2017; Schmidt et al. 2018). Early records of this species in NA (e.g., by Heath (1904) in MB, and McIntosh (1899) in NB) refer to *H. zea*.

Genus HELIOTHIS Ochsenheimer, 1816
ASPILA Guenée, 1842
CANTHYLIDIA Butler, 1886
DISOCNEMIS Grote, 1883
DYSOCNEMIS Grote, 1883
HELIOTHIS Hübner, 1806
RHODOSEA Grote, 1883

93 2046 H. phloxiphaga Grote & Robinson, 1867 (Heliothis) 11072
interjacens Grote, 1880 (Heliothis)

93 2047 H. acesias Felder & Rogenhofer, 1875 (Heliothis) [NEW]
luteitinctus Grote, 1875 (Heliothis)

93 2048 H. australis Hardwick, 1994 (Heliothis) [NEW]

93 2049 H. ononis (Fabricius, 1787) (Noctua) 11077
intensiva (Warren, 1911) (Chloridea)
lugubris Klemensiewicz, 1912 (Heliothis)
ononis ([Denis & Schiffermüller], 1775) (Noctua)
septentrionalis (Edwards, 1884) (Melicleptria)

93 2050 H. oregonica (Edwards, 1875) (Melicleptria) 11078

93 2051 H. proruptus Grote, 1873 (Heliothis) 11079
fimbria (Wilemans & Grinell, 1905) (Melicleptria)
venusta (Edwards, 1875) (Melicleptria)

93 2052 H. belladonna (Edwards, 1881) (Melicleptria) [NEW]
anartoides (Strand, 1915) (Dysocnemis)
belladona; (Strand, 1915) (Dysocnemis) missp. *[11080]*

93 2053 H. borealis (Hampson, 1903) (Dysocnemis) 11081
93 2053.1E H. molochitina (Berg, 1882) (Chloridea) EXCL. [NEW]
NOTE: Historically reported from NA as *Schinia espea*, a synonym. The type of *espea* (TL: FL) is a mislabeled specimen of *H. molochitina* that is presumed to have originated from South America (Hardwick 1996).
espea (Smith, 1908) (Schinia) (excl.) *[11158]*

Genus CHLORIDEA Duncan [& Westwood], 1841

93 2054 C. virescens (Fabricius, 1777) (Noctua) 11071
NOTE: Moved from *Heliothis* by Pogue (2013b).
prasina (Walker, 1857) (Xanthia)
pyraloides (Walker, 1857) (Xanthia)
rhexiae (Smith, 1797) (Phalaena)
spectanda (Strecker, 1876) (Heliothis)
viridescens (Walker, 1857) (Xanthia)
93 2055 C. subflexa (Guenée, 1852) (Aspila) 11070
NOTE: Moved from *Heliothis* by Pogue (2013b).

Genus HELIOCHEILUS Grote, 1865

93 2056 H. lupatus (Grote, 1875) (Heliothis) [NEW]
93 2057 H. turbata (Walker, 1858) (Poaphila) 11073
albidentina (Walker, 1865) (Perigea)
93 2058 H. paradoxus Grote, 1865 (Heliocheilus) 11074
hyperfusca (Strand, 1916) (Chloridea)
93 2059 H. julia (Grote, 1883) (Rhodosea) 11075
grandis (Druce, 1890) ([unknown])
unicolor (Walter, 1928) (Pseudacontia)
93 2060 H. toralis (Grote, 1881) (Botis) 11076
rosario (Barnes, 1904) (Prothymia)

Genus PROTOSCHINIA Hardwick, 1970

93 2061 P. nuchalis (Grote, 1878) (Heliothis) [NEW]
scutosa of authors; (not [Denis & Schiffermüller], 1775) (Noctua) misappl. *[11082]*

Genus SCHINIA Hübner, 1818
ID INFO: Hardwick (1996); also Troubridge (2002), Opler (2003), Knudson et al. (2003), Pogue & Harp (2003a-c, 2004, 2005), Pogue (2004), Metzler & Forbes (2011c), Pogue et al. (2013).
ADONISEA Grote, 1875
ALARIA Duncan [& Westwood], 1841
ANTHOECIA Boisduval, 1840
BESSULA Grote, 1881
CANIDIA Grote, 1890
CHLOROCLEPTRIA Hampson, 1903
DASYPOUDAEA Smith, 1883
EUCLIDIA Hübner, 1808
EULEUCYPTERA Grote, 1865
EUPANYCHIS Grote, 1883
HELIOPHANA Grote, 1875
INCITA Grote, 1895
LYGRANTHOEDIA Grote & Robinson, 1873
MELICLEPTRIA Hübner, 1823
ORIA Guenée, 1852
OXYLOS Grote, 1875
PALADA Smith, 1900
PIPPONA Harvey, 1875
PORRIMA Grote, 1877
PSEUDOTAMILA Smith, 1883
RHODODIPSA Grote, 1877
RHODOPHORA Guenée, 1852
TAMILA Guenée, 1852
THYREION Smith, 1891
TRICHOSELLUS Grote, 1890
TRICOPIS Grote, 1874
TRILENCA; Neave, 1940 missp.
TRILEUCA Grote, 1883
TRYPANA Guenée, 1841

93 2062 S. snowi (Grote, 1875) (Aedophron) 11206
rosea (Smith, 1891) (Thyreion) *[11205]*
stena (Smith, 1906) (Thyreion)
93 2063 S. bimatris (Harvey, 1875) (Pippona) 11201
93 2064 S. simplex Smith, 1891 (Schinia) 11162
93 2065 S. carolinensis (Barnes & McDunnough, 1911) (Lygranthoecia) 11202
93 2066 S. luxa (Grote, 1881) (Bessula) 11203
93 2067 S. citrinellus (Grote & Robinson, 1870) (Heliothis) 11204
93 2068 S. olivacea Smith, 1906 (Schinia) 11130
93 2069 S. indiana (Smith, 1908) (Heliolonche) 11095
93 2070 S. biundulata Smith, 1891 (Schinia) 11157
93 2071 S. immaculata (Pogue, 2004) (Melicleptria) [NEW]
93 2072 S. aurantiaca (Edwards, 1881) (Annaphila) 11089
ssp. a. aurantiaca (Edwards, 1881) (Annaphila)
californica (Hampson, 1903) (Pyrocleptria)
ssp. b. tenuimargo (Barnes & McDunnough, 1913) (Incita)
93 2073 S. jaguarina (Guenée, 1852) (Anthoecia) 11132
demaculata Strand, 1916 (Schinia)
93 2074 S. hardwickorum Opler, 2004 (Schinia) [NEW]
93 2075 S. suetus (Grote, 1873) (Heliothis) 11088
ssp. a. suetus (Grote, 1873) (Heliothis)
ssp. b. californicus (Grote, 1873) (Heliothis)
ssp. c. sierrae Hardwick, 1958 (Schinia)
ssp. d. martini Hardwick, 1958 (Schinia)
93 2076 S. aetheria (Barnes & McDunnough, 1912) (Heliothis) [NEW]
93 2076.1 S. amblys (Dyar, 1913) (Lygranthoecia) [NEW]
93 2077 S. lucens (Morrison, 1875) (Heliothis) 11174
luxuriosa (Grote, 1882) (Tamila)
93 2078 S. meadi (Grote, 1873) (Heliothis) 11175
93 2079 S. zuni (McElvare, 1950) (Dasypoudaea) 11176
93 2080 S. felicitata (Smith, 1894) (Alaria) 11163
imperialis (Barnes & McDunnough, 1911) (Chlorocleptria)
93 2081 S. lynda Troubridge, 2002 (Schinia) [NEW]
93 2082 S. florida (Guenée, 1852) (Rhodophora) 11164
93 2083 S. gaurae (Smith, 1797) (Phalaena) 11168
matutina (Hübner, 1831) (Porphyrinia)
93 2084 S. cupes (Grote, 1875) (Heliothis) 11134
navarra Dyar, 1914 (Schinia)
93 2085 S. crotchii (Edwards, 1875) (Heliothis) [NEW]
93 2086 S. deserticola Barnes & McDunnough, 1916 (Schinia) [NEW]
93 2087 S. mexicana (Hampson, 1903) (Eupanychis) [NEW]
93 2087.1 S. carrizoensis Osborne, 2010 (Schinia) [NEW]
93 2088 S. pulchripennis (Grote, 1874) (Heliothis) 11097
languida (Edwards, 1881) (Adonisea)
93 2089 S. tobia Smith, 1906 (Schinia) 11152
93 2090 S. sexplagiata Smith, 1891 (Schinia) 11151
pyraloides Strecker, 1898 (Schinia)
93 2091 S. rivulosa (Guenée, 1852) (Anthoecia) 11135
constricta (Edwards, 1882) (Lygranthoecia)
contracta (Walker, 1858) (Microphysa)
designata (Walker, 1865) (Euclidia)
marginata (Haworth, 1809) (Crambus)
93 2092 S. gracilenta Hübner, 1818 (Schinia) 11147
bifascia Hübner, 1818 (Schinia) *[11142]*
digitalis Smith, 1891 (Schinia)
divergens (Walker, 1858) (Anthophila)
gracilis (Hübner, 1808) ([unknown])
imperspicua (Strecker, 1876) (Heliothis)
93 2093 S. thoreaui (Grote & Robinson, 1870) (Anthoecia) 11141
93 2094 S. oleagina Morrison, 1875 (Schinia) 11148
baueri McElvare, 1951 (Schinia) *[11144]*
ernesta Smith, 1907 (Schinia) *[11145]*
sara Smith, 1907 (Schinia) *[11143]*
93 2095 S. grandimedia Hardwick, 1996 (Schinia) [NEW]
93 2096 S. trifascia Hübner, 1818 (Schinia) 11149
lineata (Walker, 1858) (Anthophila)
93 2097 S. buta Smith, 1907 (Schinia) 11146
93 2098 S. dobla (Smith, 1906) (Melicleptria) 11101
93 2099 S. amaryllis (Smith, 1891) (Heliophana) 11090
93 2100 S. vacciniae (Edwards, 1875) (Melicleptria) 11087
vanella (Grote, 1879) (Tamila)
93 2101 S. perminuta (Edwards, 1881) (Melicleptria) 11091
dubitans (Tepper, 1883) (Heliaca)
93 2102 S. honesta (Grote, 1881) (Melicleptria) 11102
kasloa (Smith, 1903) (Melicleptria)
93 2103 S. verna Hardwick, 1983 (Schinia) [NEW]
93 2104 S. villosa (Grote, 1864) (Melicleptria) 11083
ssp. a. villosa (Grote, 1864) (Melicleptria)
pauxillus (Grote, 1873) (Heliothis)
ssp. b. subatra (Smith, 1906) (Melicleptria)
93 2105 S. sexata (Smith, 1906) (Melicleptria) [NEW]

93 2106 S. intermontana Hardwick, 1958 (Schinia) [NEW]
93 2107 S. graefiana (Tepper, 1882) (Melicleptria) 11086
triolata (Smith, 1906) (Melicleptria) *[11084]*
93 2108 S. persimilis (Grote, 1873) (Heliothis) 11103
coloradica (Strand, 1916) (Heliothis)
flavidenta (Smith, 1906) (Melicleptria)
93 2109 S. macneilli Hardwick, 1996 (Schinia)
UNAVAIL.; nom. nud. [NEW]
NOTE: This appears to represent a biological species, but the name was not formally published according to the ICZN, so it has no available valid name.
93 2110 S. errans Smith, 1883 (Schinia) 11124
93 2111 S. mcfarlandi Opler, 2004 (Schinia) [NEW]
93 2112 S. tuberculum (Hübner, [1831]) (Melicleptria) 11116
dorsilutea (Walker, 1857) (Anthoecia)
93 2113 S. rufipenna Hardwick, 1983 (Schinia) [NEW]
93 2114 S. septentrionalis (Walker, 1858) (Omia) 11110
atrites (Grote, 1875) (Lygranthoecia)
brevis (Grote, 1864) (Anthoecia)
93 2115 S. parmeliana (Edwards, 1882) (Lygranthoecia) 11120
concinna Smith, 1891 (Schinia) *[11121]*
93 2116 S. sordidus Smith, 1883 (Schinia) 11112
approximata Strecker, 1898 (Schinia) *[11111]*
ar Strecker, 1898 (Schinia) *[11114]*
labe Strecker, 1898 (Schinia) *[11123]*
93 2117 S. nubila (Strecker, 1876) (Heliothis) 11137
dolosa Strecker, 1898 (Schinia) *[11138]*
lora Strecker, 1898 (Schinia) *[11139]*
93 2118 S. diffusa Smith, 1891 (Schinia) 11183
neglecta Strecker, 1898 (Schinia) *[11165]*
93 2119 S. obscurata Strecker, 1898 (Schinia) 11118
ssp. a. obscurata Strecker, 1898 (Schinia)
ssp. b. tanena Strecker, 1898 (Schinia) [11119]
93 2120 S. lynx (Guenée, 1852) (Anthoecia) 11117
93 2121 S. edwardsii (Smith, 1906) (Melicleptria) 11133
steenensis Hardwick, 1973 (Schinia) *[11085]*
93 2122 S. angulilinea Pogue, 2006 (Schinia) [NEW]
arizonensis Hardwick, 1996 (Schinia)
93 2123 S. siren (Strecker, 1876) (Heliothis) 11115
inclara (Strecker, 1876) (Heliothis) *[11126]*
93 2124 S. varix Knudson, Bordelon & Pogue, 2003 (Schinia) [NEW]
93 2125 S. petulans (Edwards, 1885) (Anthoecia) 11113
93 2126 S. mortua (Grote, 1865) (Anthoecia) 11131
nobilis (Grote, 1864) (Anthoecia)
packardii (Grote, 1864) (Anthoecia)
93 2127 S. hanga Strecker, 1898 (Schinia) 11136
93 2128 S. ultima (Strecker, 1876) (Heliothis) 11127
93 2129 S. spinosae (Guenée, 1852) (Heliothis) 11104
camina (Smith, 1906) (Eupanychis)
hirtella (Grote & Robinson, 1866) (Anthoecia)
93 2130 S. subspinosae Hardwick, 1996 (Schinia) [NEW]
93 2131 S. bicuspida Smith, 1891 (Schinia) 11122
93 2132 S. scissa (Grote, 1876) (Lygranthoecia) 11098
93 2133 S. scissoides (Benjamin, 1936) (Eupanychis) 11099
93 2134 S. arcigera (Guenée, 1852) (Anthoecia) 11128
ssp. a. arcigera (Guenée, 1852) (Anthoecia)
arcifera; (Guenée, 1852) (Anthoecia) emend.
spraguei (Grote, 1863) (Anthoecia)
ssp. b. ferricasta Smith, 1906 (Schinia)
ferricosta; McDunnough, 1938 (Schinia) missp.
limbalis (Grote, 1875) (Lygranthoecia) *[11129]*
93 2135 S. saturata (Grote, 1874) (Lygranthoecia) 11140
rubiginosa (Strecker, 1876) (Heliothis)
93 2135.1 S. psamathea Pogue, 2010 (Schinia) [NEW]
93 2136 S. jaegeri (Sperry, 1940) (Chlorocleptria) 11161
93 2137 S. ligeae Smith, 1893 (Schinia) 11160
93 2138 S. miniana (Grote, 1881) (Rhododipsa) 11155
pallicincta Smith, 1906 (Schinia) *[11156]*
93 2139 S. volupia (Fitch, 1868) (Alaria) 11106
aden (Strecker, 1898) (Rhododipsa) *[11109]*
masoni (Smith, 1896) (Rhododipsa) *[11108]*
volupides (Strand, 1916) (Rhododipsa)
93 2141 S. fulleri (McElvare, 1961) (Rhododipsa) 11107
93 2142 S. sanrafaeli Opler, 2004 (Schinia) [NEW]
93 2143 S. biforma Smith, 1906 (Schinia) 11125
93 2144 S. carmosina Neumoegen, 1884 (Schinia) [NEW]
93 2145 S. sanguinea (Geyer, 1832) (Oria) 11173
gloriosa (Strecker, 1877) (Heliothis) *[11171]*
terrifica Barnes & McDunnough, 1918 (Schinia) *[11172]*
93 2146 S. niveicosta (Smith, 1906) (Heliothis) 11167
melliflua Dyar, 1921 (Schinia)
93 2147 S. regia (Strecker, 1876) (Heliothis) 11166
93 2148 S. regina Pogue & Harp, 2003 (Schinia) [NEW]
93 2149 S. roseitincta (Harvey, 1875) (Lygranthoecia) 11092
exalta (Edwards, 1884) (Melicleptria)
93 2150 S. bina (Guenée, 1852) (Anthoecia) 11105
fastidiosa (Strecker, 1876) (Heliothis)
mesceana; (Hampson, 1903) (Lygranthoecia) emend.
meskeana (Grote, 1875) (Lygranthoecia)
rufimedia (Grote, 1880) (Lygranthoecia)
93 2151 S. antonio (Smith, 1906) (Melicleptria) 11093
93 2152 S. intrabilis Smith, 1893 (Schinia) 11159
93 2153 S. acutilinea (Grote, 1878) (Lygranthoecia) [NEW]
separata (Grote, 1879) (Lygranthoecia) *[11190]*
velutina Barnes & McDunnough, 1912 (Schinia) *[11191]*
93 2154 S. walsinghami (Edwards, 1881) (Lygranthoecia) 11184
balba (Grote, 1881) (Lygranthoecia) *[11186]*
brucei Smith, 1891 (Schinia)
valsinghami; Hampson, 1903 (Schinia) emend.
93 2154.1 S. poguei Metzler & Forbes, 2011 (Schinia) [NEW]
93 2155 S. crenilinea Smith, 1891 (Schinia) 11185
93 2156 S. nundina (Drury, 1773) (Phalaena) 11177
nigrirena (Haworth, 1809) (Phytometra)
93 2157 S. arefacta (Edwards, 1885) (Tamila) 11178
93 2158 S. tertia (Grote, 1874) (Tamila) 11179
megarena Smith, 1906 (Schinia)
93 2159 S. albafascia Smith, 1883 (Schinia) 11181
93 2160 S. ferrisi Pogue & Harp, 2004 (Schinia) [NEW]
93 2161 S. erosa Smith, 1906 (Schinia) [NEW]
93 2162 S. brunnea Barnes & McDunnough, 1913 (Schinia) 11182
93 2163 S. argentifascia Barnes & McDunnough, 1912 (Schinia) 11180
93 2164 S. illustra Smith, 1906 (Schinia) 11170
93 2165 S. accessa Smith, 1906 (Schinia) 11150
viridens (Walter, 1928) (Lygranthoecia)
93 2166 S. coercita (Grote, 1881) (Lygranthoecia) 11187
alensa Smith, 1906 (Schinia) *[11189]*
93 2167 S. obliqua Smith, 1883 (Schinia) 11196
93 2168 S. unimacula Smith, 1891 (Schinia) 11188
coolidgei Hill, 1924 (Schinia)
93 2169 S. maculata Pogue, 2006 (Schinia) [NEW]
blanca Hardwick, 1996 (Schinia)
93 2170 S. oculata Smith, 1900 (Schinia) 11197
macroptica Smith, 1906 (Schinia)
93 2171 S. chrysellus (Grote, 1874) (Tricopis) 11199
cochula (Felder & Rogenhofer, 1874) (Heliothis)
conchula; (Franclemont & Todd, 1983) (Heliothis) missp.
lanul (Strecker, 1877) (Heliothis) *[11154]*
93 2172 S. chryselloides (Pogue & Harp, 2005) (Melicleptria) [NEW]
93 2173 S. alencis (Harvey, 1875) (Tricopis) 11198
93 2174 S. ciliata Smith, 1900 (Schinia) 11200
93 2175 S. rufocostulata (Pogue & Harp, 2005) (Melicleptria) [NEW]
93 2176 S. reniformis Smith, 1900 (Schinia) 11195
93 2177 S. cumatilis (Grote, 1865) (Euleucyptera) 11192
sulmala (Strecker, 1878) (Heliothis)
93 2178 S. hulstia Tepper, 1883 (Schinia) 11193
tenuescens (Grote, 1883) (Lygranthoecia) *[11194]*
93 2179 S. velaris (Grote, 1878) (Tamila) 11153
ochreifascia Smith, 1891 (Schinia)
93 2180 S. mitis (Grote, 1873) (Heliothis) 11169
obliquata (Smith, 1891) (Heliophana)
93 2181 S. scarletina (Smith, 1900) (Palada) 11096
93 2182 S. avemensis (Dyar, 1904) (Pseudotamila) 11100
93 2183 S. carminatra (Smith, 1903) (Pseudotamila) 11094
93 2183.1e S. oliva (Martyn, 1797) (Phalaena) EXCL.; nom. dub. [NEW]
NOTE: Placed in *Schinia* by Poole (1989) and listed therein as an unrecognized species. TL: GA.

Genus HELIOLONCHE Grote, 1873
HELIOSEA Grote, 1875

93 2184 H. modicella Grote, 1873 (Heliolonche) 11207
93 2185 H. carolus McDunnough, 1936 (Heliolonche) 11208
93 2186 H. celeris (Grote, 1873) (Heliothis) 11209
melicleptrioides (Benjamin, 1936) (Heliosea)
93 2187 H. pictipennis (Grote, 1875) (Heliosea) 11210
cresina (Smith, 1906) (Melicleptria) *[11211]*
defasciata (Benjamin, 1936) (Heliosea)
sabulosa (Smith, 1906) (Melicleptria)
93 2188 H. joaquinensis Hardwick, 1996 (Heliolonche) [NEW]

Genus MELAPORPHYRIA Grote, 1874

93 2189 M. immortua Grote, 1874 (Melaporphyria) 11212

Subfamily NOCTUINAE Latreille, 1809

Tribe ERIOPINI Herrich-Schäffer, [1851]

NOTE: Systematic placement follows Keegan et al. (2021).

Genus CALLOPISTRIA Hübner, 1821
ERIOPUS Treitschke, 1825
EUHERRICHIA Grote, 1882
HAPLOOLOPHUS Butler, 1991
HERRICHIA Grote, 1882
LAGOPUS R. L., 1817
METHORASA Moore, 1881

93 2190 C. floridensis (Guenée, 1852) (Eriopus) 9630
elegantulus (Herrich-Schäffer, 1868) (Eriopus)
strena Grote, 1895 (Callopistria)
93 2191 C. jamaicensis (Möschler, 1886) (Eriopus) STRAY [NEW]
93 2192 C. mollissima (Guenée, 1852) (Eriopus) 9631
rubicunda (Walker, 1858) (Erastria)
93 2193 C. granitosa (Guenée, 1852) (Eriopus) 9632
argentilinea Walker, 1858 (Callopistria)
93 2194 C. cordata (Ljungh, 1825) (Bombyx) 9633
monetifera (Guenée, 1852) (Eriopus)
93 2194.1e C. argentomacularia (Martyn, 1797) (Phalaena) EXCL.; nom. dub. [NEW]
NOTE: This species (TL: GA) has not been listed in recent NA checklists. It was placed in *Callopistria* by Poole (1989) and listed therein as an unrecognized species in the genus.

Genus PHUPHENA Grote, 1872

93 2194.5 P. tura (Druce, 1889) (Dianthoecia) 9634
obliqua (Smith, 1900) (Fagitana) *[9635]*

Tribe BRYOPHILINI Guenée, 1852

NOTE: Systematic placement follows Keegan et al. (2021).

Genus "CRYPHIA" Hübner, 1818 PROV. PL.
ID INFO (partial): Mustelin (2006).
NOTE: All NA species placed in this genus are not "true" *Cryphia*, which is restricted to the Palaearctic (Lafontaine & Schmidt 2010). However they are retained here pending description of a new genus.

93 2195 C. olivacea (Smith, 1891) (Cerma) mispl. 9287
galva (Strecker, 1898) (Cerma) *[9294]*
93 2196 C. fascia (Smith, 1903) (Cerma) mispl. 9288
93 2197 C. flavidior (Barnes & McDunnough, 1911) (Cerma) mispl. 9289
fulvisparsa (Hampson, 1914) (Bryophila)
93 2198 C. oaklandiae (Barnes & McDunnough, 1911) (Cerma) mispl. 9290
93 2199 C. nana (Barnes & McDunnough, 1911) (Cerma) mispl. [NEW]
NOTE: *C. nanoides* was an unneccessary replacement name by Franclemont & Todd (in Hodges et al. 1983).
nanoides Franclemont & Todd, 1983 (Cryphia) *[9291]*
93 2200 C. cuerva (Barnes, 1907) (Cerma) mispl. 9292
93 2201 C. pallidioides Poole, 1989 (Cryphia) mispl. [NEW]
NOTE: Replacement name by Poole (1989) for *Cryphia pallida* (Barnes & Lindsey, 1922), a secondary junior homonym of *Cryphia pallida* (Bethune-Baker, 1894).
pallida (Barnes & Lindsey, 1922) (Cerma) preocc. *[9293]*
93 2202 C. sarepta (Barnes, 1907) (Cerma) mispl. 9295
93 2203 C. albipuncta (Barnes & McDunnough, 1910) (Cerma) mispl. 9297
93 2204 C. flavipuncta Mustelin, 2006 (Cryphia) mispl. [NEW]
93 2204.1e C. corticosa (Guenée, 1852) (Bryophila) EXCL.; nom. dub. [NEW]
NOTE: This species was described as being from NA, but its identity cannot be determined. It was omitted from the NA fauna by Lafontaine & Schmidt (2010). Schmidt et al. (2014) concluded that it likely does not represent a NA or European species.

Genus ACOPA Harvey, 1875
NOTE: Systematic placement follows Keegan et al. (2019).
GRYPOTES Dyar, 1917
ZATILPA Dyar, 1920

93 2204.51 A. carina Harvey, 1875 (Acopa) 9825
93 2204.52 A. perpallida Grote, 1878 (Acopa) 9826
borealis (Dyar, 1917) (Grypotes)
dentifer (Dyar, 1917) (Grypotes)
incana Edwards, 1882 (Acopa)
pura Barnes & Lindsey, 1922 (Acopa)

Genus GLOANNA Nye, 1975
ID INFO (partial): Blanchard & Knudson (1983a).
NOTE: Systematic placement follows Keegan et al. (2021).
LANGONA Barnes & Lindsey, 1921

93 2204.61 G. grisescens (Barnes & Lindsey, 1921) (Langona) 9844
93 2204.62 G. hecate Blanchard & Knudson, 1983 (Gloanna) [NEW]

Genus EVIRIDEMAS Barnes & Benjamin, 1929
NOTE: Systematic placement follows Keegan et al. (2021).

93 2204.7 E. minuta (Barnes & McDunnough, 1910) (Viridemas) 9848

Tribe PSEUDEUSTROTIINI Beck, 1996

Genus PSEUDEUSTROTIA Warren, 1913

93 2205 P. carneola (Guenée, 1852) (Erastria) 9053
biplaga (Walker, 1858) (Erastria)
93 2206 P. indeterminata (Barnes & McDunnough, 1918) (Lithacodia) 9054

Genus ANTERASTRIA Sugi, 1982

93 2207 A. teratophora (Herrich-Schäffer, [1854]) (Bryophila) 9284
inscripta (Walker, 1858) (Erastria)

Tribe PHOSPHILINI Poole, 1995

Genus PHOSPHILA Hübner, 1818
HELIOSCOTA Grote, 1895

93 2208 P. turbulenta Hübner, 1818 (Phosphila) 9618
arcuata (Walker, 1857) (Xylophasia)
93 2209 P. miselioides (Guenée, 1852) (Hadena) 9619
ssp. a. miselioides (Guenée, 1852) (Hadena)
miscellus (Smith, 1902) (Hadena)
ssp. b. macerata (Smith, 1902) (Hadena)
93 2210 P. fernae (Benjamin, 1933) (Speocropia) 9624

Genus SPEOCROPIA Hampson, 1908

93 2211 S. trichroma (Herrich-Schäffer, 1868) (Hadena) [NEW]
trichoma; ([various, no date]) (Hadena) missp. *[9625]*

Genus ACHERDOA Walker, 1865

93 2213 A. ferraria Walker, 1865 (Acherdoa) 9636
ornata (Neumoegen, 1884) (Varina)

Tribe DYPTERYGIINI Forbes, 1954

NOTE: Dypterygiini and Phosphilini are closely related and together may form a single monophyletic tribe (Keegan et al. 2021).

Genus DYPTERYGIA Stephens, 1829

93 2213.11 D. rozmani Berio, 1974 (Dypterygia) 9560
scabriuscula of authors; (not Linnaeus, 1758) (Phalaena) misappl.

93 2213.12 D. ligata (Möschler, 1891) (Hadena) [NEW]
93 2213.13 D. patina (Harvey, 1875) (Hadena) 9561
minorata Barnes, 1907 (Dypterygia)
93 2213.14 D. ordinarius (Butler, 1879) (Prometopus) [NEW]
93 2213.15 D. punctirena (Walker, 1857) (Hadena) [NEW]
praecellens (Möschler, 1886) (Hadena)

Genus "DYPTERYGIA" Stephens, 1829 PROV. PL.

93 2213.2 D. dolens (Druce, 1909) (Macronoctua) mispl. 9562
NOTE: Provisionally placed in *Dypterygia* by Lafontaine & Schmidt (2010).
daemonassa (Dyar, 1910) (Iscadia)

Genus ACRORIA Walker, 1858
ALIBAMA Möschler, 1886

93 2213.3 A. pulchra (Möschler, 1886) (Alibama) [NEW]
niphanda (Druce, 1889) (Dargida)
terens of authors; (not Walker, 1857) (Hadena) misid.

Genus NEOPHAENIS Hampson, 1908
ID INFO: Barbut & Lalanne-Cassou (2004).
NEOPHOENIS; Neave, 1940 missp.

93 2213.4 N. boucheri Barbut & Lalanne-Cassou, 2004 (Neophaenis) [NEW]
NOTE: Reported from NA (TX) by Blanchard (1973a) as *N. respondens*. Barbut & Lalanne-Cassou (2004) recognized that it was in fact a new species, which they described.
respondens of authors; (not Walker, 1858) (Polyphaenis) misappl. *[9628]*

Genus TRACHEA Ochsenheimer, 1816
ACHATIS Billberg, 1820
TRACHAEA; Schaus, 1923 missp.

93 2213.5 T. delicata (Grote, 1874) (Hadena) 9626
interna (Grote, 1875) (Hadena)

Genus MAGUSA Walker, 1857
ID INFO: Lafontaine et al. (2009).
CALLIXENA Saalmüller, 1891
SASUNAGA Moore, 1881

93 2213.61 M. orbifera (Walker, 1857) (Xylina) 9637
angustipennis (Möschler, 1886) (Laphygma)
divida (Möschler, 1890) ([unknown])
orbiferana Strand, 1916 (Magusa)
orbiferella Strand, 1916 (Magusa)
perversa Strand, 1916 (Magusa)
strigifera Walker, 1857 (Magusa)
93 2213.62 M. divaricata (Grote, 1874) (Stictoptera) STRAY [NEW]
dissidens Felder & Rogenhofer, 1874 (Magusa)
sarpida Felder & Rogenhofer, 1874 (Magusa)

Tribe PRODENIINI Forbes, 1954

Genus SPODOPTERA Guenée, 1852
ID INFO: Todd & Poole (1980).
ARIATHIS Walker, 1865
EULAPHYGMA Butler, 1899
LAPHYGMA Guenée, 1852
PRODENIA Guenée, 1852

93 2214 S. hipparis (Druce, 1889) (Heliophobus) 9674
colossa (Draudt, 1924) (Leucochlaena)
pallens (Draudt, 1924) (Leucochlaena)
93 2215 S. exigua (Hübner, [1808]) (Noctua) I 9665
NOTE: Introduced to NA (Zahiri et al. 2014); it was described from Europe.
antipodea (Warren, 1914) (Laphygma)
caradrinoides (Walker, 1856) (Laphygma)
cycloides (Guenée, 1852) (Laphygma)
flavimaculata (Harvey, 1876) (Caradrina)
fulgens (Geyer, 1832) (Noctua)
junceti (Zeller, 1847) (Caradrina)
pygmaea (Rambur, 1834) (Caradrina)
sebghana (Austaut, 1880) (Caradrina)
venosa (Butler, 1880) (Caradrina)
93 2216 S. frugiperda (Smith, 1797) (Phalaena) 9666
autumalis (Riley, 1871) (Prodenia)
fulvosa (Riley, 1876) (Laphygma)
inepta (Walker, 1856) (Laphygma)
macra (Guenée, 1852) (Laphygma)
obscura (Riley, 1876) (Laphygma)
plagiata (Walker, 1856) (Prodenia)
signifera (Walker, 1856) (Prodenia)
93 2217 S. praefica (Grote, 1875) (Prodenia) 9667
93 2218 S. pulchella (Herrich-Schäffer, 1868) (Laphygma) 9668
exquisita (Möschler, 1886) (Prodenia)
93 2219 S. ornithogalli (Guenée, 1852) (Prodenia) 9669
eudiopta (Guenée, 1852) (Prodenia)
eudioptoides (Barnes & Benjamin, 1923) (Prodenia)
flavimedia (Harvey, 1875) (Prodenia)
lineatella (Harvey, 1875) (Prodenia)
93 2220 S. latifascia (Walker, 1856) (Prodenia) 9670
variolosa (Walker, 1857) (Prodenia)
93 2221 S. dolichos (Fabricius, 1794) (Noctua) 9671
commelinae (Smith, 1797) (Phalaena)
marmorea (Sepp, 1840) (Phalaena)
93 2222 S. androgea (Stoll, in: Cramer, [1780]) (Phalaena) [NEW]
rubrifusa (Hampson, 1909) (Prodenia)
93 2223 S. eridania (Stoll, in: Cramer, [1782]) (Phalaena) 9672
amygia (Guenée, 1852) (Xylomyges)
bipunctata (Walker, 1857) (Xylina)
derupta (Morrison, 1875) (Actinotia)
externa (Walker, 1856) (Leucania)
ignobilis (Butler, 1878) (Prodenia)
inquieta (Walker, 1857) (Xylina)
linea (Fabricius, 1794) (Noctua)
nigrofascia (Hulst, 1881) (Leucania)
phytolaccae (Smith, 1797) (Phalaena)
putrida (Guenée, 1852) (Xylomyges)
recondita (Möschler, 1890) (Callierges)
strigifera (Walker, 1858) (Prodenia)
93 2224 S. albula (Walker, 1857) (Xylina) [NEW]
NOTE: This species was called *Spodoptera sunia* (Guenée) prior to Poole (1989), who determined that the taxon *sunia* actually belongs to the genus *Neogalea*. *Spodoptera albula* hence replaces *Spodoptera sunia* of authors as the next oldest available name.
caudata (Walker, 1869) (Laphygma)
orbicularis (Walker, 1857) (Laphygma)
sunia of authors; (not Guenée, 1852) (Xylomyges) misappl.

Genus GALGULA Guenée, 1852
NOTE: Prior molecular phylogenetic work placed *Galgula* and *Spodoptera* as sister to *Elaphria* (Mitchell et al. 2000), with *Galgula* subsequently placed in the Elaphriini (Fibiger & Lafontaine 2005). Phylogenetic analysis with more representative noctuid lineages and additional molecular markers strongly support a close relationship of *Galgula* and *Spodoptera* to the exclusion of *Elaphria* and other Elaphriini genera (Keegan et al. 2021), lending support to previous classification of both in the Prodeniini, and that is followed herein.

93 2224.5 G. partita Guenée, 1852 (Galgula) 9688
baueri (Staudinger, 1870) (Thalpochares)
bias (Druce, 1889) (Thalpochares)
externa (Walker, 1865) (Euclidia)
ferruginea (Walker, 1858) (Hydrelia)
hepara Guenée, 1852 (Galgula)
hippotamada (Druce, 1889) (Thalpochares)
interna; Barnes & McDunnough, 1917 (Galgula) missp.
mandane (Druce, 1891) (Rivula)
novarae (Felder & Rogenhofer, 1874) (Thalpochares)
sorex Möschler, 1886 (Galgula)
subpartita Guenée, 1852 (Galgula)
vesca (Morrison, 1875) (Telesilla)

Tribe ELAPHRIINI Beck, 1996

Genus ELAPHRIA Hübner, 1818
ID INFO (partial): Saluke & Pogue (2000), Pogue & Sullivan (2003).
ALPESA Walker, 1858
CARBONA Schaus, 1906
MONODES Guenée, 1852

93 2225 E. fuscimacula (Grote, 1881) (Hadena) 9675
93 2225.1 E. hypophaea (Hampson, 1920) (Monodes) [NEW]
hyposcota (Hampson, 1909) (Monodes)
93 2226 E. nucicolora (Guenée, 1852) (Monodes) 9676
clara (Harvey, 1878) (Caradrina)
paginata (Morrison, 1875) (Hadena)

unisignata (Walker, 1856) (Laphygma)

93 2227 E. agrotina (Guenée, 1852) (Celaena) 9677
aduncula (Felder & Rogenhofer, 1874) (Hadena)
trientiplaga (Walker, 1858) (Laphygma)

93 2227.1 E. guttula (Herrich-Schäffer, 1868) (Celaena) [NEW]
NOTE: This species was recorded from Key Largo, FL in 2018 by Jim Troubridge. It was raised from synonymy under *E. agrotina* by Becker (2002).

93 2228 E. versicolor (Grote, 1875) (Hadena) 9678

93 2229 E. devara (Druce, in: Godman & Salvin, 1898) (Eustrotia) [NEW]

93 2230 E. chalcedonia (Hübner, [1808]) (Noctua) 9679
arna (Guenée, 1852) (Celaena)
expuncta (Walker, 1857) (Celaena)
irresoluta (Walker, 1857) (Celaena)
tracta (Grote, 1874) (Hadena)
vincta (Walker, 1857) (Miana)

93 2231 E. deltoides (Möschler, 1880) (Erastria) [NEW]
harudes (Druce, 1889) (Thalpochares)

93 2232 E. georgei (Moore & Rawson, 1939) (Monodes) 9680

93 2233 E. festivoides (Guenée, 1852) (Celaena) 9681
albovariegata Strand, 1915 (Elaphria)
cephalica (Grote, 1891) (Hadena)
varia (Walker, 1858) (Erastria)

93 2234 E. alapallida Pogue & Sullivan, 2003 (Elaphria) [NEW]
NOTE: Prior to its description in 2003, this species was treated within the concept of *E. festivoides*.

93 2235 E. cornutinis Pogue, 2000 (Elaphria) [NEW]
cornutinus; Lafontaine & Schmidt, 2010 (Elaphria) missp.

93 2236 E. exesa (Guenée, 1852) (Celaena) 9682
floridana (Walker, 1865) (Hadena)

93 2236.1 E. trolia (Dyar, 1914) (Monodes) [NEW]

93 2237 E. subobliqua (Walker, 1858) (Celaena) [NEW]
mutata (Möschler, 1886) (Alibama)
trapezoides (Herrich-Schäffer, 1868) (Celaeno)
vittata (Walker, 1865) (Callopistria)

93 2238 E. grata Hübner, 1818 (Elaphria) 9684
orina (Guenée, 1852) (Cosmia)
rasilis (Morrison, 1875) (Hadena)

Genus "ELAPHRIA" Hübner, 1818 PROV. PL.
NOTE: This species, described in the Acronictinae by Ferguson (1988), was removed from *Cryphia* and provisionally placed in *Elaphria* by Lafontaine & Schmidt (2010).

93 2239 E. cyanympha (Ferguson, [1989]) (Cryphia) mispl. [NEW]

Genus PSEUDOMARIMATHA Ferris & Lafontaine, 2010
ID INFO: Ferris & Lafontaine (2010).

93 2239.5 P. flava Ferris & Lafontaine, 2010 (Pseudomarimatha) [NEW]

Genus BRYOLYMNIA Hampson, 1908
ID INFO: Lafontaine et al. (2010b).

93 2240 B. viridimedia (Smith, 1905) (Bryophila) 9685

93 2241 B. marti Holland, 2010 (Bryolymnia) [NEW]

93 2242 B. mixta Lafontaine & Walsh, 2010 (Bryolymnia) [NEW]

93 2243 B. ensina (Barnes, 1907) (Oligia) 9683
obliquirena (Hampson, 1918) (Calymniodes)

93 2244 B. biformata Lafontaine & Walsh, 2010 (Bryolymnia) [NEW]

93 2245 B. anthracitaria Ferris & McFarland, 2007 (Bryolymnia) [NEW]

93 2246 B. semifascia (Smith, 1900) (Chytonix) 9686

93 2247 B. viridata (Harvey, 1876) (Jaspidea) 9296

Genus GONODES Druce, 1908
GONODES Hampson, 1908

93 2248 G. liquida (Möschler, 1886) (Ipimorpha) 9687
leada (Druce, 1898) (Drobeta)
violascens (Schaus, 1894) (Cyathissa)

Genus CHYTONIX Grote, 1874
NOTE: Moved from Xylenini to Elaphriini, and the species *C. palliatricula* and *C. sensilis* renumbered from P-No. 932713 and 932714 to 932249.5 and 932249.6, respectively, by Lafontaine & Schmidt (2011).
CHYTONYX; Neave, 1939 missp.

93 2249.11 C. palliatricula (Guenée, 1852) (Bryophila) 9556
iaspis (Guenée, 1852) (Apamea)

93 2249.12 C. sensilis Grote, 1881 (Chytonix) 9557
macdonaldi Benjamin, 1922 (Chytonix)
ruperti Franclemont, 1941 (Chytonix) *[9558]*
submediana Strand, 1916 (Chytonix)

[NOCTUINAE – UNPLACED] ("NACOPA CLADE")

NOTE: The "*Nacopa* clade" obtained in the analysis by Keegan et al. (2021) was left in Xylenini (unplaced) therein, but here we tentatively treat this group as an undescribed tribe.

Genus "PARAMIANA" Barnes & Benjamin, 1924 PROV. PL.

93 2249.2 P. canoa (Barnes, 1907) (Cerma) mispl. 9806
NOTE: Provisional placement here follows Keegan et al. (2021).

Genus NACOPA Barnes & Benjamin, 1924
NOTE: Systematic placement follows Keegan et al. (2021).

93 2249.31 N. bistrigata (Barnes & McDunnough, 1918) (Acopa) 9827

93 2249.32 N. melanderi Barnes & Benjamin, 1927 (Nacopa) 9828

Genus PROPERIGEA Barnes & Benjamin, 1927
NEPERIGEA McDunnough, 1938

93 2249.4 P. loculosa (Grote, 1881) (Perigea) 9587
continentis (Dyar, 1916) (Bryomima)
oziphona (Dyar, 1916) (Bryomima)

93 2249.41 P. albimacula (Barnes & McDunnough, 1912) (Namangana) 9588

93 2249.42 P. costa (Barnes & Benjamin, 1923) (Namangana) 9589

93 2249.43 P. continens (Edwards, 1885) (Perigea) 9590

93 2249.44 P. mephisto (Blanchard, 1968) (Neperigea) 9591

93 2249.45 P. tapeta (Smith, 1900) (Hadena) 9592

93 2249.46 P. seitzi (Barnes & Benjamin, 1926) (Namangana) 9593

93 2249.47 P. suffusa (Barnes & McDunnough, 1912) (Namangana) 9594
rubida (Barnes & McDunnough, 1912) (Namangana)

93 2249.48 P. perolivalis (Barnes & McDunnough, 1912) (Namangana) 9595

93 2249.49 P. niveirena (Harvey, 1876) (Perigea) 9596
pohono (Smith, 1899) (Oncocnemis)

Genus HEMIBRYOMIMA Barnes & Benjamin, 1927

93 2249.5 H. chryselectra (Grote, 1880) (Hadena) 9597
benigna (Edwards, 1884) (Perigea)

Genus PSEUDOBRYOMIMA Barnes & Benjamin, 1927

93 2249.61 P. distans (Barnes & McDunnough, 1912) (Bryomima) 9598

93 2249.62 P. muscosa (Hampson, 1906) (Bryomima) 9599

93 2249.63 P. fallax (Hampson, 1906) (Bryomima) 9600
falsa Grote, 1880 (Pseudobryomima)
uintara (Smith, 1911) (Antitype)

Genus FAGITANA Walker, 1865
PSEUDOLIMACODES Grote, 1874

93 2249.7 F. littera (Guenée, 1852) (Leucania) 9629
lucidata Walker, 1865 (Fagitana)
niveicostatus (Grote, 1874) (Pseudolimacodes)

Genus NIPHONYX Sugi, 1982

93 2249.8 N. segregata (Butler, 1878) (Miana) I [NEW]
NOTE: Introduced from Asia to NY in the 1990s (Lafontaine & Schmidt 2010).
placens (Staudinger, 1888) (Telesilla)

Tribe CARADRININI Boisduval, 1840

Subtribe CARADRININA Boisduval, 1840

Genus CARADRINA Ochsenheimer, 1816
ID INFO (partial): Hacker (2004), Mustelin (2006).
NOTE: Although NA species formerly placed in *Protoperigea* were not included in Hacker's (2004) revision of the Caradrinini, morphological study of these species by Jan Metlevski (pers. comm.) indicates that they should be subsumed within the broader current concept of *Caradrina* proposed by Hacker. Indeed, DNA barcode variation not only corroborates placement within the genus, it suggests the native NA species form a small species radiation with a single origin derived from this very diverse Eurasian genus. The following new combinations are therefore proposed: *Caradrina* (= *Protoperigea* n. syn.), *Caradrina anotha* (n. comb.), *C. posticata* (n. comb.), *C. umbricata* (n. comb.), *C. subterminata* (n. comb.), *C. parvulata* (n. comb.), *C. calientensis* (n. comb.). Although Hacker (2004) proposed a number of subgenera within *Caradrina*, we do not assign those formerly in *Protoperigea* to any subgenus, pending a full comparison to Eurasian genus-group taxa.
PROTOPERIGEA McDunnough, 1937 N. SYN.

93 2250 C. anotha (Dyar, 1904) (Platyperigea) N. COMB. 9642
93 2251 C. posticata (Harvey, 1875) (Orthosia) N. COMB. 9643
veterata (Smith, 1894) (Perigea)
93 2252 C. umbricata (Mustelin, 2006) (Protoperigea) N. COMB. [NEW]
93 2253 C. subterminata (Mustelin, 2006) (Protoperigea) N. COMB. [NEW]
93 2254 C. parvulata (Mustelin, 2006) (Protoperigea) N. COMB. [NEW]
93 2255 C. calientensis (Mustelin, 2006) (Protoperigea) N. COMB. [NEW]

Subgenus CARADRINA Ochsenheimer, 1816
PSEUDOPHYLLOPHILA Berio, 1977

Caradrina morpheus group Hacker, 2004

93 2256 C. morpheus (Hufnagel, 1766) (Phalaena) I 9653
NOTE: Introduced from Europe; first found in NA in BC in 1944 (Zahiri et al. 2017).
alpina (Hartig, 1938) (Athetis)
dresnayi (Lucas, 1933) (Athetis)
pulla (Beckwith, 1794) (Phalaena)
sepii (Hübner, 1803) (Noctua)

Subgenus PLATYPERIGEA Smith, 1894 emend.
HYMENODRINA Boursin, 1937
PLATYPERIGA; Smith, 1894 orig. missp.

Caradrina camina group Hacker, 2004

93 2257 C. meralis Morrison, 1875 (Caradrina) 9654
bilunata Grote, 1877 (Caradrina)
93 2258 C. camina (Smith, 1894) (Platyperigea) 9655
ssp. a. camina (Smith, 1894) (Platyperigea)
ssp. b. alpha (Barnes & Benjamin, 1926) (Platyperigea)
93 2259 C. beta (Barnes & Benjamin, 1926) (Platyperigea) [NEW]
93 2262 C. mona (Barnes & McDunnough, 1912) (Athetis) 9658
93 2263 C. atrostriga (Barnes & McDunnough, 1912) (Athetis) 9659
93 2264 C. distinctoides Poole, 1989 (Caradrina) [NEW]
NOTE: Replacement name by Poole (1989) for *Caradrina distincta* (Barnes, 1928), a junior secondary homonym of *Caradrina distincta* Staudinger, 1897.
distincta (Barnes, 1928) (Athetis) preocc. *[9660]*

Caradrina montana group Hacker, 2004

93 2264.1 C. montana Bremer, 1861 (Caradrina) extralim. H [NEW]
ssp. a. extima Walker, 1865 (Caradrina) [9656]
civica Grote, 1883 (Caradrina)
93 2264.2 C. multifera Walker, [1857] (Caradrina) 9657
fidicularia (Morrison, 1875) (Segetia)

Subgenus PARADRINA Boursin, 1937

Caradrina clavipalpis group Hacker, 2004

93 2265 C. clavipalpis (Scopoli, 1763) (Phalaena) I [NEW]
NOTE: Introduced from Europe to NY, first found in 1993 (Lafontaine & Schmidt 2010).
ssp. a. clavipalpis (Scopoli, 1763) (Phalaena)
avicula Krulikovsky, 1909 (Caradrina)
cubicularis ([Denis & Schiffermüller], 1775) (Noctua)
grisea (Hufnagel, 1766) (Phalaena)
leucoptera (Thunberg, 1791) (Noctua)
mauretanica (Draudt, 1934) (Athetis)
milleri (Schultz, 1862) (Noctua)
pulverosa Walker, [1857] (Caradrina)
quadripunctata (Fabricius, 1775) (Noctua)

Subtribe ATHETIINA Fibiger & Lafontaine, 2005

Genus PROXENUS Herrich-Schäffer, 1850

93 2266 P. miranda (Grote, 1873) (Caradrina) 9647
nitens (Dyar, 1904) (Caradrina)
93 2267 P. mindara Barnes & McDunnough, 1913 (Proxenus) 9648
93 2268 P. mendosa McDunnough, 1927 (Proxenus) 9649

Genus ATHETIS Hübner, 1821

93 2269 A. tarda (Guenée, 1852) (Caradrina) 9650
prima (Smith, 1891) (Anorthodes)

Genus PROTEUXOA Hampson, 1903

93 2269.5E P. capularis (Guenée, 1852) (Agrotis) EXCL. [NEW]
derosa (Morrison, 1875) (Caradrina) (excl.)
NOTE: The synonym *derosa* was described from a specimen erroneously labeled as being from "New Jersey"; it is from Australia, according to Poole (1989). "True" *P. capularis* does not occur in NA. We have placed this species following *Athetis*, because that is the closest relative to *Proteuxoa*, according to Hitchcock et al. (2017).

Genus "ANORTHODES" Smith, 1891 PROV. PL.
NOTE: These species do not belong in *Anorthodes*, nor in the Athetiina (Lafontaine & Schmidt 2010), but they are retained here until a better placement can be found.

93 2270 A. triquetra (Grote, 1883) (Pyrophila) mispl. 9651
93 2271 A. indigena (Barnes & Benjamin, 1925) (Athetis) mispl. 9652

Tribe ACTINOTIINI Beck, 1996

Genus NEDRA Clarke, 1940
ID INFO: Clarke (1940).

93 2283 N. ramosula (Guenée, 1852) (Cloantha) 9582
93 2284 N. stewarti (Grote, 1875) (Actinotia) 9583
dora Clarke, 1940 (Nedra) *[9584]*
steuarti; (Hampson, 1909) (Delta) emend.
93 2286 N. hoeffleri Clarke, 1940 (Nedra) 9585

Genus IODOPEPLA Franclemont, 1964

93 2287 I. u-album (Guenée, 1852) (Ceramica) 9522
baliola (Morrison, 1875) (Orthosia)
purpuripennis (Grote, 1874) (Apamea)
v-album; Walker, 1856 (Iodopepla) missp.
w-album; Grote, 1874 (Iodopepla) missp.

Genus ALASTRIA Lafontaine & Troubridge, 2004
ID INFO: Lafontaine & Troubridge (2004).

93 2288 A. chico Lafontaine & Troubridge, 2004 (Alastria) [NEW]
tropicalis of authors; (not Schaus, 1911) (Callierges) misappl.

Tribe PHLOGOPHORINI Hampson, 1918

Genus EUPLEXIA Stephens, 1829

93 2289 E. triplaga (Walker, 1857) (Dianthoecia) [NEW]
brillians Barnes & McDunnough, 1911 (Euplexia) *[9544]*
roseola Felder & Rogenhofer, 1874 (Euplexia)
93 2290 E. benesimilis McDunnough, 1922 (Euplexia) 9545
lucipara of authors; (not Linnaeus, 1758) (Phalaena) misappl.

Genus PHLOGOPHORA Treitschke, 1825
BROTOLOMIA Lederer, 1857
MESOLOMIA Smith, 1893
RACOPTERA Scott, 1858
SOLENOPTERA Duponchel, 1845

93 2291 P. iris Guenée, 1852 (Phlogophora) 9546
93 2292 P. periculosa Guenée, 1852 (Phlogophora) 9547
v-brunneum (Grote, 1875) (Trigonophora)

Genus CONSERVULA Grote, 1874

93 2293 C. anodonta (Guenée, 1852) (Phlogophora) 9548

Tribe APAMEINI Guenée, 1841

Genus APAMEA Ochsenheimer, 1816
ID INFO: Mikkola et al. (2009).
ABROMIAS Billberg, 1820
AGROPERINA Hampson, 1908
AGROSTOBIA Boie, 1835
CRYMODES Guenée, 1841
DIMYA Moore, 1882
HAMA Stephens, 1829
OMMATOSTOLA Grote, 1873
PROTAGROTIS Hampson, 1903
SEPTIS Hübner, 1821
SYMA Stephens, 1850
TRICHOPLEXIA Hampson, 1908
XYLOPHASIA Stephens, 1829

Apamea verbascoides group Mikkola, Lafontaine & Gill, 2009

93 2294 A. verbascoides (Guenée, 1852) (Xylophasia) 9326
93 2295 A. inebriata Ferguson, 1977 (Apamea) 9327
93 2296 A. nigrior (Smith, 1891) (Xylophasia) 9328
93 2297 A. vulgaris (Grote & Robinson, 1866) (Xylophasia) 9332
93 2298 A. wikeri Quinter & Lafontaine, 2009 (Apamea) [NEW]
93 2299 A. cristata (Grote, 1878) (Hadena) 9331
93 2300 A. cariosa (Guenée, 1852) (Xylophasia) 9329
cluna (Strecker, 1898) (Hadena)
dionea (Smith, 1899) (Hadena) *[9330]*
idonea (Grote, 1882) (Hadena)
93 2301 A. quinteri Mikkola & Lafontaine, 2009 (Apamea) [NEW]

Apamea crenata group Mikkola, Lafontaine & Gill, 2009

93 2302 A. apamiformis (Guenée, 1852) (Xylophasia) 9343
contenta (Walker, 1857) (Hadena)
93 2303 A. vultuosa (Grote, 1875) (Hadena) 9341
ssp. a. vultuosa (Grote, 1875) (Hadena)
ssp. b. multicolor (Dyar, 1904) (Hadena) [9342]
93 2304 A. plutonia (Grote, 1883) (Hadena) 9344
93 2305 A. perpensa (Grote, 1881) (Hadena) 9345
perpenoa; (Grote, 1881) (Hadena) missp.
93 2306 A. xylodes Mikkola & Lafontaine, 2009 (Apamea) [NEW]
93 2307 A. alia (Guenée, 1852) (Taeniocampa) 9351
rorulenta (Smith, 1904) (Xylophasia)
suffusca (Morrison, 1875) (Hadena)

Apamea unanimis group Mikkola, Lafontaine & Gill, 2009

93 2308 A. unanimis (Hübner, [1813]) (Noctua) I [NEW]
NOTE: Introduced from Eurasia in about 1991 (Zahiri et al. 2014).

Apamea remissa group Mikkola, Lafontaine & Gill, 2009

93 2309 A. remissa (Hübner, [1809]) (Noctua) H [NEW]
NOTE: This name was once used to apply to all of NA; now just to Beringian material (Mikkola et al. 2009).
divitis (Bryk, 1942) (Polia)
gemina (Hübner, [1813]) (Noctua)
obscura (Haworth, 1809) (Noctua)
submissa (Treitschke, 1825) (Hadena)
93 2310 A. indocilis (Walker, 1856) (Xylophasia) 9362
ampliata (McDunnough, 1940) (Septis) *[9363]*
enigra (Smith, 1904) (Xylophasia)
ferens (Smith, 1903) (Xylophasia)
lona (Strecker, 1898) (Hadena)
remissa of authors; (not Hübner, [1809]) (Noctua) misappl.
runata (Smith, 1899) (Hadena)
separans (Grote, 1881) (Hadena)
93 2311 A. impulsa (Guenée, 1852) (Mamestra) 9360
93 2312 A. unita (Smith, 1904) (Xylophasia) 9355

Apamea cuculliformis group Mikkola, Lafontaine & Gill, 2009

93 2313 A. cuculliformis (Grote, 1875) (Hadena) 9325

Apamea sordens group Mikkola, Lafontaine & Gill, 2009

93 2314 A. sordens (Hufnagel, 1766) (Phalaena) extralim. H [NEW]
basilinea ([Denis & Schiffermüller], 1775) (Noctua) (excl.)
ssp. a. finitima Guenée, 1852 (Apamea) [9364]
cerviana (Smith, 1900) (Hadena)
ssp. b. sableana Mikkola, 2009 (Apamea)
93 2315 A. digitula Mustelin & Mikkola, 2006 (Apamea) [NEW]

Apamea leucodon group Mikkola, Lafontaine & Gill, 2009

93 2316 A. inordinata (Morrison, 1875) (Hadena) 9353
ssp. a. inordinata (Morrison, 1875) (Hadena)
ssp. b. semilunata (Grote, 1881) (Hadena) [9352]
montana (Smith, 1891) (Xylophasia)
ssp. c. olympia Crabo, 2009 (Apamea)
columbiae (Strand, 1916) ([unknown])
93 2317 A. spaldingi (Smith, 1909) (Hyppa) 9356
umbrifacta (Hampson, 1910) (Trachea)
93 2318 A. cinefacta (Grote, 1881) (Hadena) 9357
albertae (Strand, 1916) (Cloantha)

Apamea monoglypha group Mikkola, Lafontaine & Gill, 2009

93 2319 A. lignicolora (Guenée, 1852) (Xylophasia) 9333
quaesita (Grote, 1876) (Hadena)
93 2320 A. atriclava (Barnes & McDunnough, 1913) (Parastichtis) [NEW]
93 2321 A. smythi Franclemont, 1952 (Apamea) 9350
93 2322 A. helva (Grote, 1875) (Orthosia) 9373
93 2323 A. antennata (Smith, 1891) (Xylophasia) 9334
purpurissata (Barnes & McDunnough, 1913) (Parastichtis)
washingtonensis (Strand, 1916) ([unknown])
93 2324 A. siskiyou Mikkola & Lafontaine, 2009 (Apamea) [NEW]
93 2325 A. atrosuffusa (Barnes & McDunnough, 1913) (Parastichtis) 9336
grotei (Barnes & McDunnough, 1914) (Parastichtis) *[9335]*
93 2326 A. auranticolor (Grote, 1873) (Hadena) 9339
barnesii (Smith, 1899) (Hadena)
93 2327 A. sora (Smith, 1903) (Hadena) [NEW]
93 2328 A. tahoeensis Mikkola & Lafontaine, 2009 (Apamea) [NEW]
tahoensis; Lafontaine & Schmidt, 2010 (Apamea) missp.
93 2329 A. commoda (Walker, 1857) (Xylina) 9359
ssp. a. commoda (Walker, 1857) (Xylina)
alberta (Smith, 1903) (Hadena)
illustra (Smith, 1908) (Xylophasia)
satina (Strecker, 1898) (Hadena)
ssp. b. parcata (Smith, 1903) (Hadena) [9358]
ssp. c. striolata Mikkola, 2009 (Apamea)
93 2330 A. centralis (Smith, 1891) (Xylophasia) 9354
93 2331 A. genialis (Grote, 1874) (Hadena) 9340

Apamea occidens group Mikkola, Lafontaine & Gill, 2009

93 2332 A. occidens (Grote, 1878) (Hadena) 9346
coloradensis Strand, 1916 (Apamea)

Apamea amputatrix group Mikkola, Lafontaine & Gill, 2009

93 2333 A. amputatrix (Fitch, 1857) (Hadena) 9348
amica (Harris, 1863) (Hadena)
arctica (Boisduval, 1840) (Hadena)
arctica (Freyer, 1842) (Hadena)
castanea (Grote, 1874) (Hadena) *[9349]*
cymosa (Grote, 1881) (Hadena)
cymosana (Strand, 1916) ([unknown])

formosus (Ellsworth, 1918) (Hadena)
pluviosa (Walker, 1865) (Eurois)

Apamea walshi group Mikkola, Lafontaine & Gill, 2009

93 2334 A. walshi Lafontaine, 2009 (Apamea) [NEW]

Apamea albina group Mikkola, Lafontaine & Gill, 2009

93 2335 A. albina (Grote, 1874) (Hadena) 9347

Apamea maxima group Mikkola, Lafontaine & Gill, 2009

93 2336 A. maxima (Dyar, 1904) (Polia) 9337
93 2337 A. robertsoni Mikkola & Mustelin, 2006 (Apamea) [NEW]

Apamea acera group Mikkola, Lafontaine & Gill, 2009

93 2338 A. acera (Smith, 1900) (Polia) 9338

Apamea burgessi group Mikkola, Lafontaine & Gill, 2009

93 2339 A. burgessi (Morrison, 1874) (Luceria) 9378
ssp. a. burgessi (Morrison, 1874) (Luceria)
ssp. b. ona (Smith, 1909) (Luperina) [9379]
stygia (Dyar, 1914) (Trachea)
ssp. c. leucoptera Mikkola, 2009 (Apamea)
93 2340 A. relicina (Morrison, 1875) (Hadena) 9380
ssp. a. relicina (Morrison, 1875) (Hadena)
ssp. b. migrata (Smith, 1903) (Luperina) [9381]

Apamea zeta group Mikkola, Lafontaine & Gill, 2009

93 2341 A. longula (Grote, 1879) (Hadena) 9383
93 2342 A. bernardino Mikkola & Mustelin, 2001 (Apamea) [NEW]
93 2343 A. scoparia Mikkola, Mustelin & Lafontaine, 2000 (Apamea) [NEW]
NOTE: Recent name change for material previously treated as *A. lateritia*, now considered strictly Palaearctic.
ssp. a. scoparia Mikkola, Mustelin & Lafontaine, 2000 (Apamea)
lateritia of authors; (not Hufnagel, 1766) (Phalaena) misappl. *[9365]*
ssp. b. gabrieli Mikkola & Mustelin, 2000 (Apamea)
93 2343.1E A. maillardi (Geyer, in: Hübner, [1834]) (Noctua) EXCL. [NEW]
NOTE: The synonym *obliviosa* was purportedly described from "Rocky Mountains" [USA], but it is assumed to be mislabeled, as it appears that the type is a specimen of the strictly European *A. maillardi* (Lafontaine & Schmidt 2010). Other historical records of this Palaearctic species in NA refer to *A. zeta*.
obliviosa (Walker, 1858) (Mamestra) (excl.) *[9366]*
93 2344 A. dubitans (Walker, 1856) (Mamestra) 9367
amanda (Swinhoe, 1901) (Agroperina)
insignata Walker, 1857 (Apamea)
sputator (Grote, 1873) (Hadena)
93 2345 A. cogitata (Smith, 1891) (Xylophasia) [NEW]
93 2346 A. geminimacula (Dyar, 1904) (Hadena) 9368
stagmatipennis (Dyar, 1920) (Parastichtis)
93 2347 A. inficita (Walker, 1857) (Graphiphora) 9369
ssp. a. inficita (Walker, 1857) (Graphiphora)
belangeri (Morrison, 1875) (Orthosia)
ssp. b. conradi (Grote, 1879) (Orthosia) [9370]
citima (Grote, 1883) (Orthosia)
popofensis (Smith, 1900) (Ommatostola) *[9371]*
ssp. c. indela (Smith, 1910) (Agroperina)
lineosa (Smith, 1910) (Agroperina)
nada Strand, 1916 (Apamea)
palliderufa Strand, 1916 (Apamea)
pendina (Smith, 1910) (Agroperina)
saturatior Strand, 1916 (Apamea)
93 2348 A. lutosa (Andrews, 1877) (Orthosia) 9372
93 2349 A. fergusoni Mikkola & Lafontaine, 2009 (Apamea) [NEW]
93 2350 A. devastator (Brace, 1819) (Phalaena) 9382
abjecta (Guenée, 1852) (Noctua)
contenta (Walker, 1856) (Mamestra)
ordinaria (Walker, 1856) (Mamestra)
speciosa (Morrison, 1875) (Polia)
93 2351 A. zeta (Treitschke, 1825) (Polia) extralim. H [NEW]
ssp. a. exulis (Lefèbvre, 1836) (Hadena) [9385]
borea (Guenée, 1852) (Crymodes)
borea (Herrich-Schäffer, 1852) (Crymodes)
cervina (Germar, [1842]) (Mamestra)
difflua (Geyer, 1837) (Exarnis)
gelata (Lefèbvre, 1836) (Hadena)
gelida (Guenée, 1852) (Crymodes)
groenlandica (Duponchel, 1838) (Hadena)
ssp. b. downesi Mikkola, 2009 (Apamea)
ssp. c. murrayi (Gibson, 1920) (Homoglaea) [9384]
johanseni McDunnough, 1933 (Apamea)
ssp. d. pelagica Mikkola, 2009 (Apamea)
ssp. e. nichollae (Hampson, 1908) (Protagrotis) [9377]
93 2352 A. alticola (Smith, 1891) (Xylophasia) [NEW]
93 2353 A. rubrirena (Treitschke, 1825) (Mamestra) H [NEW]
abnoba (Guth, 1932) (Hadena)
asciburgensis (Koch, 1965) (Crymodes)
feisthamelii (Boisduval, 1833) (Hadena)
fennica (Guth, 1932) (Hadena)
hercyniae (Staudinger, 1871) (Hadena)
intermedia (Guth, 1932) (Hadena)
kurilirena (Bryk, 1942) (Crymodes)
marginipicta Varga, 1973 (Apamea)
miriquidoi (Koch, 1963) (Crymodes)
ontakensis Sugi, 1982 (Apamea)
pacifica Sugi, 1982 (Apamea)
rhaetonorica (Koch, 1965) (Crymodes)
rubirena; [Pohl], 2016 (Apamea) missp.
shibuyae (Matsumura, 1925) (Crymodes)
sylvicola (Eversmann, 1843) (Mamestra)
wasedana Sugi, 1982 (Apamea)
93 2354 A. contradicta (Smith, 1895) (Xylophasia) [NEW]
exornata (Möschler, 1860) (Hadena) preocc. *[9394]*
93 2355 A. niveivenosa (Grote, 1879) (Agrotis) 9374
ssp. a. niveivenosa (Grote, 1879) (Agrotis)
extensa (Smith, 1905) (Luperina) *[9375]*
flavistriga (Smith, 1905) (Perigea)
viralis (Grote, 1881) (Agrotis)
ssp. b. obscuroides Poole, 1989 (Apamea)
obscura (Barnes & McDunnough, 1911) (Protagrotis) preocc. *[9376]*
93 2356 A. lintneri (Grote, 1873) (Ommatostola) 9395

[Apamea ungrouped]

93 2357 A. pallifera (Grote, 1877) (Polia) 9565
NOTE: This species is known only from the type, reportedly collected from IL. It was listed in *Andropolia* by Franclemont & Todd (in Hodges et al. 1983), and was accidentally omitted from Mikkola et al. (2009) so it is therefore unplaced to a species group within *Apamea*. It may be a Eurasian species (Lafontaine & Schmidt 2010).

Genus LOSCOPIA Beck, [1992]
ID INFO: Mikkola et al. (2009).

93 2358 L. velata (Walker, 1865) (Apamea) 9454
sera (Grote & Robinson, 1868) (Hydroecia)
93 2359 L. roblei Quinter & Lafontaine, 2009 (Loscopia) [NEW]

Genus PROTAPAMEA Quinter, 2009
ID INFO: Mikkola et al. (2009).

93 2360 P. danieli Quinter, 2009 (Protapamea) [NEW]
93 2361 P. louisae Quinter, 2009 (Protapamea) [NEW]

Genus CHEROKEEA Sullivan & Quinter, 2014
ID INFO: Quinter & Sullivan (2014).

93 2361.5 C. attakullakulla Sullivan & Quinter, 2014 (Cherokeea) [NEW]

Genus MELANAPAMEA Lafontaine, 2009
ID INFO: Mikkola et al. (2009).

93 2362 M. mixta (Grote, 1881) (Hadena) 9361

Genus LATEROLIGIA Zilli, Fibiger & Ronkay, 2005
ID INFO: Mikkola et al. (2009).

93 2363 L. ophiogramma (Esper, 1793) (Phalaena) I [NEW]
NOTE: Introduced from Eurasia to western NA, first found in BC in 1989 (Crabo & Holden 2020).
biloba (Haworth, 1809) (Noctua)

Genus "RESAPAMEA" (GROUP 1) Varga & Ronkay, 1992 PROV. PL.
NOTE: This species does not belong in *Resapamea*, but a better placement has not been determined. It is not congeneric with "*Resapamea" stipata*.

93 2364 R. trigona (Smith, 1902) (Luperina) mispl. 9386

Genus RESAPAMEA Varga & Ronkay, 1992
ID INFO (partial): Crabo et al. (2013).
LUPERINA Boisduval, 1828
LYPERINA; Spuler, 1908 missp.
PALLUPERINA Hampson, 1920

93 2365 R. innota (Smith, 1908) (Luperina) 9387
93 2366 R. venosa (Smith, 1903) (Cosmia) 9388
93 2367 R. enargia (Barnes & Benjamin, 1926) (Luperina) 9389
93 2368 R. passer (Guenée, 1852) (Mamestra) 9391
ssp. a. passer (Guenée, 1852) (Mamestra)
conspicua (Morrison, 1874) (Luceria)
hulstii (Grote, 1880) (Hadena)
incallida (Walker, 1857) (Agrotis)
loculata (Morrison, 1874) (Luceria)
morna (Strecker, 1878) (Hadena) *[9392]*
virguncula (Smith, 1899) (Hadena) *[9390]*
ssp. b. birnata (Smith, 1908) (Hadena)
93 2368.1 R. diluvius Crabo, 2013 (Resapamea) [NEW]
93 2368.2 R. angelika Crabo, 2013 (Resapamea) [NEW]
93 2368.3 R. mammuthus Crabo, 2013 (Resapamea) [NEW]

Genus "RESAPAMEA" (GROUP 2) Varga & Ronkay, 1992 PROV. PL.

93 2369 R. stipata (Morrison, 1875) (Hadena) mispl. 9393
NOTE: Placement in *Resapamea* by Lafontaine & Schmidt (2010) was temporary, pending a better generic placement. It is not congeneric with "*Resapamea" trigona*.

Genus MESAPAMEA Heinicke, 1959

93 2370 M. fractilinea (Grote, 1874) (Hadena) 9406
ssp. a. fractilinea (Grote, 1874) (Hadena)
misera (Grote, 1882) (Hadena)
modiola (Grote, 1879) (Hadena)
una (Strecker, 1900) (Hadena)
vulgivaga (Morrison, 1875) (Hadena)
ssp. b. albescens (Barnes & McDunnough, 1910) (Oligia)
93 2371 M. arbora (Barnes & McDunnough, 1912) (Trachea) 9407
mactatoides (Barnes & McDunnough, 1912) (Trachea)
93 2371.1 M. secalis (Linnaeus, 1758) (Phalaena) I [NEW]
NOTE: Introduced from Europe; first found in BC and WA in 2016 (Crabo & Holden 2020).
didyma (Esper, 1788) (Phalaena)
furca (Haworth, 1809) (Noctua)
i-niger (Haworth, 1809) (Noctua)
lamda (Vieweg, 1790) (Noctua)
lancea (Esper, 1791) (Phalaena)
leucostigma (Esper, 1791) (Phalaena)
lugens (Haworth, 1809) (Noctua)
rava (Haworth, 1809) (Noctua)
secaline (Hübner, [1809]) (Noctua)
struvei (Ragusa, 1885) (Hadena)
vilis (Hübner, [1821]) (Parastichtis)

Genus EREMOBINA McDunnough, 1937

93 2372 E. claudens (Walker, 1857) (Hadena) 9396
albertina (Hampson, 1908) (Eremobia)
hanhami (Barnes & Benjamin, 1924) (Eremobia) *[9400]*
hilli (Grote, 1876) (Hadena) *[9397]*
93 2373 E. unicincta (Smith, 1902) (Hadena) 9399
93 2374 E. leucoscelis (Grote, 1874) (Polia) [NEW]
fibulata (Morrison, 1874) (Dryobota)
jocasta (Smith, 1900) (Hadena) *[9398]*

Genus OLIGIA Hübner, 1821
MESOLIGIA Boursin, 1965
MIANA Stephens, 1829
PROCUS Agassiz, 1846
PROCUS Oken, 1815

93 2375 O. strigilis (Linnaeus, 1758) (Phalaena) I [NEW]
NOTE: A recent introduction from Europe, first reported in NA in Quebec City, QC by Handfield (1999).
invisa (Walker, [1857]) (Miana)
praeduncula ([Denis & Schiffermüller], 1775) (Noctua)
virgata (Heydemann, 1942) (Procus)
93 2376 O. latruncula ([Denis & Schiffermüller], 1775) (Noctua) I [NEW]
NOTE: A recent introduction from Europe, to the New York City (NY) area (Lafontaine & Schmidt 2010).
aerata (Esper, 1790) (Phalaena)
aethiops (Haworth, 1809) (Noctua)
meretricula (Borkhausen, 1792) (Phalaena)

Genus "OLIGIA" Hübner, 1821 PROV. PL.
NOTE: "True" *Oligia* is restricted to the Old World, and NA species do not belong in it. However, they are provisionally placed here pending description of a new genus (Lafontaine & Schmidt 2010).

93 2377 O. chlorostigma (Harvey, 1876) (Hadena) mispl. 9402
viridimusca (Smith, 1899) (Hadena)
93 2378 O. modica (Guenée, 1852) (Apamea) mispl. 9404
subcedens (Walker, 1857) (Celaena)
93 2379 O. tusa (Grote, 1878) (Hadena) mispl. 9405
93 2380 O. violacea (Grote, 1881) (Hadena) mispl. 9414
ssp. a. violacea (Grote, 1881) (Hadena) mispl.
ssp. b. columbia McDunnough, 1927 (Oligia) mispl.
93 2381 O. rampartensis Barnes & Benjamin, 1923 (Oligia) mispl. [NEW]
93 2382 O. bridghamii (Grote & Robinson, 1866) (Mamestra) mispl. [NEW]
bridghami; Franclemont & Todd, 1983 (Oligia) emend. *[9415]*
ssp. a. bridghamii (Grote & Robinson, 1866) (Mamestra) mispl.
ssp. b. iridis Dyar, 1923 (Oligia) mispl.
93 2383 O. egens (Walker, [1857]) (Celaena) mispl. 9417
ssp. a. egens (Walker, [1857]) (Celaena) mispl.
ssp. b. ferrealis (Grote, 1883) (Mamestra) mispl.
transfrons (Neumoegen, 1883) (Hadena) mispl.
93 2384 O. minuscula (Morrison, 1875) (Orthosia) mispl. 9416
ssp. a. minuscula (Morrison, 1875) (Orthosia) mispl.
ssp. b. grahami Benjamin, 1933 (Oligia) mispl.
93 2385 O. obtusa (Smith, 1902) (Helotropha) mispl. 9418
93 2386 O. divesta (Grote, 1874) (Hadena) mispl. 9559
laticlava (Smith, 1903) (Chytonix)

Genus NEOLIGIA Troubridge & Lafontaine, 2002
ID INFO: Troubridge & Lafontaine (2002).

93 2387 N. semicana (Walker, 1865) (Miana) 9411
hausta (Grote, 1882) (Hadena) *[9409]*
latireptana (Walker, 1865) (Erastria)
93 2388 N. canadensis Troubridge & Lafontaine, 2002 (Neoligia) [NEW]
NOTE: Prior to its description in 2002, this species was treated within the concept of *N. semicana*.
93 2389 N. atlantica Troubridge & Lafontaine, 2002 (Neoligia) [NEW]
93 2390 N. exhausta (Smith, 1903) (Hadena) 9408
93 2391 N. crytora (Franclemont, 1950) (Procus) 9410
93 2392 N. subjuncta (Smith, 1898) (Hadenella) [NEW]
laevigata (Smith, 1898) (Hadenella) *[9412]*
93 2393 N. inermis Troubridge & Lafontaine, 2002 (Neoligia) [NEW]
93 2394 N. pagosa Troubridge & Lafontaine, 2002 (Neoligia) [NEW]
93 2395 N. hardwicki Troubridge & Lafontaine, 2002 (Neoligia) [NEW]
93 2396 N. surdirena Troubridge & Lafontaine, 2002 (Neoligia) [NEW]
93 2397 N. tonsa (Grote, 1880) (Hadena) 9413
fasciata Barnes & McDunnough, 1912 (Neoligia)
93 2398 N. rubirena Troubridge & Lafontaine, 2002 (Neoligia) [NEW]
93 2399 N. invenusta Troubridge & Lafontaine, 2002 (Neoligia) [NEW]
93 2400 N. elephas Troubridge & Lafontaine, 2002 (Neoligia) [NEW]
93 2401 N. albirena Troubridge & Lafontaine, 2002 (Neoligia) [NEW]

93 2402 N. lancea Troubridge & Lafontaine, 2002 (Neoligia) [NEW]

93 2403 N. lillooet Troubridge & Lafontaine, 2002 (Neoligia) [NEW]

Genus EUROS Edwards, 1881
ID INFO: Troubridge (2006).
PROTOPHANA Hampson, 1906

93 2404 E. cervina (Edwards, 1890) (Herrichia) 9421
93 2405 E. osticollis Troubridge, 2006 (Euros) [NEW]
93 2406 E. proprius Edwards, 1881 (Euros) 9422

Genus COBALOS Smith, 1899
COBALIODES Dyar, 1903

93 2407 C. angelicus Smith, 1899 (Cobalos) 9423
93 2408 C. franciscanus Smith, 1899 (Cobalos) 9424

Genus MEROPLEON Dyar, 1924
ID INFO: Ferguson (1982a); also Metlevski (2005).

93 2409 M. cosmion Dyar, 1924 (Meropleon) 9425
93 2410 M. cinnamicolor Ferguson, 1982 (Meropleon) [NEW]
93 2411 M. linae Metlevski, 2005 (Meropleon) [NEW]
93 2412 M. titan Todd, 1958 (Meropleon) 9426
93 2413 M. diversicolor (Morrison, 1875) (Demas) 9427
ssp. a. diversicolor (Morrison, 1875) (Demas)
ssp. b. sullivani Ferguson, 1982 (Meropleon)
93 2414 M. ambifusca (Newman, 1948) (Oligia) 9428

Genus LEMMERIA Barnes & Benjamin, 1926
BRACHYCOSMIA Hampson, 1906

93 2415 L. digitalis (Grote, 1882) (Anchocelis) 9429

Genus XYLOMOIA Staudinger, 1892
ID INFO: Mikkola (1998).
XYLOMOEA; Hampson, 1909 missp.

93 2416 X. chagnoni Barnes & McDunnough, 1917 (Xylomoia) 9433
93 2417 X. indirecta (Grote, 1875) (Hadena) 9401

Genus ORTHOMOIA Mustelin, 2000
ID INFO: Mustelin et al. (2000).

93 2418 O. bloomfieldi Mustelin, 2000 (Orthomoia) [NEW]

Genus PHOTEDES Lederer, 1857
ID INFO (partial): Schweitzer (1983).
SPARTINIPHAGA McDunnough, 1937

93 2419 P. inops (Grote, 1881) (Orthosia) 9435
insipida (Strecker, 1900) (Caradrina)
insipidella (Strand, 1916) ([unknown])
93 2420 P. carterae (Schweitzer, 1984) (Spartiniphaga) [NEW]
93 2421 P. includens (Walker, [1858]) (Hydrelia) 9434
lunaris (Strand, 1916) ([unknown])
mariae (Grote, 1877) (Eustrotia)
norna (Morrison, 1875) (Hadena)
penita (Morrison, 1875) (Lithacodia)
93 2422 P. panatela (Smith, 1904) (Erastria) 9436
93 2423 P. didonea (Smith, 1894) (Hadena) 9432
draudti (Barnes & Benjamin, 1926) (Xylomoea)

Genus "PHOTEDES" Lederer, 1857 PROV. PL.
NOTE: The species *enervata* and *defecta* were provisionally placed in *Photedes* by Lafontaine & Schmidt (2010).

93 2424 P. enervata (Guenée, 1852) (Nonagria) mispl. 9441
fodiens (Guenée, 1852) (Nonagria)
orphnina (Dyar, 1912) (Arenostola) *[9442]*
93 2425 P. defecta (Grote, 1874) (Senta) mispl. 9443

Genus HYPOCOENA Hampson, 1908
ID INFO (partial): Mustelin (2006).

93 2426 H. inquinata (Guenée, 1852) (Nonagria) 9437
orientalis (Grote, 1882) (Tapinostola)
variana (Morrison, 1876) (Tapinostola) *[9438]*
93 2427 H. sofiae (Mustelin, 2006) (Photedes) [NEW]
93 2428 H. basistriga (McDunnough, 1933) (Calamia) 9439
93 2429 H. rufostrigata (Packard, 1867) (Leucania) 9440
punctivena (Smith, 1894) (Caradrina)
rufostriga; Hampson, 1910 (Hypocoena) missp.
93 2430 H. stigmatica (Eversmann, 1855) (Leucania) H [NEW]
lagunica (Graeser, 1889) (Tapinostola)

Genus "ACRAPEX" Hampson, 1894 PROV. PL.
ID INFO: Ferguson (1991b).
NOTE: Provisional placement of the species *A. relicta* by Lafontaine & Schmidt (2010).

93 2431 A. relicta Ferguson, 1991 (Acrapex) mispl. [NEW]

Genus FRANCLEMONTIA Ferguson, 1992
ID INFO: Ferguson (1992).
PHRAGMATIPHILA Hampson, 1908

93 2432 F. interrogans (Walker, 1856) (Leucania) 9444

Genus BENJAMINIOLA Strand, 1928
BUCCHOLZIA Barnes & Benjamin, 1926
EUBUCHHOLZIA Barnes & Benjamin, 1929

93 2433 B. colorada (Smith, 1900) (Arsilonche) 9445
cirphidia (Hampson, 1910) (Cea)
colorado; McDunnough, 1938 (Benjaminiola) missp.
leucanidia (Hampson, 1910) (Cea)

Genus MAMMIFRONTIA Barnes & Lindsey, 1922
ID INFO (partial): Mustelin (2006).

93 2434 M. leucania Barnes & Lindsey, 1922 (Mammifrontia) 9446
93 2435 M. rileyi Benjamin, 1936 (Mammifrontia) 9447
93 2436 M. sarae Mustelin, 2006 (Mammifrontia) [NEW]

Genus RHIZEDRA Warren, 1911
ID INFO: Mikkola & Lafontaine (1994).

93 2437 R. lutosa (Hübner, [1803]) (Noctua) I [NEW]
NOTE: Recent introduction from Europe to eastern NA (McCabe & Schweitzer 1991; Mikkola & Lafontaine 1994).
bathyerga (Boie, 1835) (Noctua)
crassicornis (Haworth, 1809) (Noctua)
griseata Warren, 1911 (Rhizedra)
pilicornis (Haworth, 1812) (Noctua)
vectis (Curtis, 1833) (Nonagria)

Genus GLOBIA Fibiger, Zilli, Ronkay & Goldstein, 2010
NOTE: *Globia* is an objective replacement name for *Capsula* Fibiger, Zilli, Ronkay & Goldstein, 2005, which is a junior primary homonym of *Capsula* Schumacher, 1817 (Mollusca).
ACHARANA; Viette, 1947 missp.
ARCHANARA Walker, 1866
CAPSULA Fibiger, Zilli, Ronkay & Goldstein, 2005 preocc.

93 2438 G. oblonga (Grote, 1882) (Nonagria) 9449
permagna (Grote, 1883) (Nonagria)
subcarnea (Kellicott, 1883) (Nonagria)
93 2439 G. subflava (Grote, 1882) (Nonagria) 9450
93 2440 G. alameda (Smith, 1903) (Nonagria) 9448
93 2441 G. laeta (Morrison, 1875) (Nonagria) 9451

Genus MACRONOCTUA Grote, 1874

93 2442 M. onusta Grote, 1874 (Macronoctua) 9452

Genus HELOTROPHA Lederer, 1857

93 2443 H. reniformis (Grote, 1874) (Luperina) 9453
atra Grote, 1874 (Helotropha)
insignata (Strand, 1916) ([unknown])

Genus ACHATODES Guenée, 1852

93 2444 A. zeae (Harris, 1841) (Gortyna) 9520
sandix Guenée, 1852 (Achatodes)

Genus PERANIANA Strand, 1942
PERANIA Barnes & McDunnough, 1910

93 2445 P. dissociata (Barnes & McDunnough, 1910) (Perania) 9521

Genus AMPHIPOEA Billberg, 1820

93 2446 A. interoceanica (Smith, 1899) (Hydroecia) 9456
93 2447 A. americana (Speyer, 1875) (Hydroecia) 9457
atlantica (Smith, 1899) (Hydroecia)
lusca (Smith, 1891) ([unknown])
nictitans of authors; (not Linnaeus, 1767) (Phalaena) misappl.
93 2448 A. pacifica (Smith, 1899) (Hydroecia) [NEW]
93 2449 A. cottlei (McDunnough, 1948) (Apamea) 9458
93 2450 A. senilis (Smith, 1892) (Hydraecia) 9459
flavostigma (Barnes & Benjamin, 1924) (Apamea) [9462]
93 2451 A. keiferi (Benjamin, 1935) (Apamea) 9460

Genus "AMPHIPOEA" Billberg, 1820 PROV. PL.
NOTE: Provisional placement of these species by Lafontaine & Schmidt (2010).

93 2452 A. lunata (Smith, 1891) (Apamea) mispl. 9455
albilunata (Smith, 1899) (Hydroecia)
93 2453 A. erepta (Grote, 1881) (Gortyna) mispl. 9461
ssp. a. erepta (Grote, 1881) (Gortyna) mispl.
ssp. b. ryensis (Bird, 1913) (Apamea) mispl.

Genus HYDRAECIA Guenée, 1841
ID INFO (partial): Crabo et al. (2013).
HYDROECIA; [various, no date] missp.

93 2455 H. medialis Smith, 1892 (Hydroecia [sic]) 9511
pallescens Smith, 1899 (Hydroecia [sic]) [9510]
93 2456 H. obliqua (Harvey, 1876) (Gortyna) 9512
columbia (Barnes & Benjamin, 1924) (Gortyna) [9519]
ximena (Barnes & Benjamin, 1924) (Gortyna) [9518]
93 2457 H. immanis Guenée, 1852 (Hydroecia [sic]) 9513
93 2458 H. micacea (Esper, 1789) (Phalaena) I 9514
NOTE: Introduced from Europe, first found in NA in NB 1902 (Zahiri et al. 2017).
cypriaca (Hübner, 1803) (Noctua)
viola Bryk, 1949 (Hydroecia [sic])
93 2459 H. perobliqua Hampson, 1910 (Hydroecia [sic]) 9515
93 2460 H. stramentosa Guenée, 1852 (Hydroecia [sic]) 9516
diplocyma Hampson, 1910 (Hydroecia [sic])
93 2461 H. intermedia (Barnes & Benjamin, 1924) (Gortyna) 9517

Genus PARAPAMEA Bird, 1927

93 2464 P. buffaloensis (Grote, 1877) (Ochria) 9463
latia (Strecker, 1899) (Hydroecia)
simplicissima (Bird, 1916) ([unknown])

Genus PAPAIPEMA Smith, 1899
EMBOLOECIA Hampson, 1908
PAIPEMA; Rockburne & Hardwick, 1970 missp.

93 2465 P. unimoda (Smith, 1894) (Hydroecia) 9509
cerussata of authors; (not Grote, 1864) (Gortyna) misid.
frigida (Smith, 1899) (Hydroecia)
imperspicua Bird, 1908 (Papaipema)
perobsoleta (Lyman, 1905) ([unknown])
terminalis Strand, 1916 (Papaipema)
thalictri (Lyman, 1905) (Gortyna)
93 2466 P. cerina (Grote, 1874) (Gortyna) 9464
93 2467 P. appassionata (Harvey, 1876) (Gortyna) 9493
horni Strand, 1914 (Papaipema)
93 2468 P. furcata (Smith, 1899) (Hydroecia) 9495
93 2469 P. eryngii Bird, 1917 (Papaipema) 9494
93 2470 P. cerussata (Grote, 1864) (Gortyna) 9505
cerrussata; Smith, 1899 (Papaipema) missp.
93 2471 P. sciata Bird, 1908 (Papaipema) 9506
93 2472 P. marginidens (Guenée, 1852) (Gortyna) 9492
93 2473 P. nepheleptena (Dyar, 1908) (Gortyna) 9490
moeseri Bird, 1911 (Papaipema)
93 2474 P. stenocelis (Dyar, 1907) (Hydroecia) 9481
stenoscelis; [various, no date] (Papaipema) missp.
93 2475 P. speciosissima (Grote & Robinson, 1868) (Gortyna) 9482
regalis Wyatt & Beer, 1927 (Papaipema)
93 2476 P. inquaesita (Grote & Robinson, 1868) (Gortyna) 9483
wyatti Barnes & Benjamin, 1929 (Papaipema)
93 2477 P. circumlucens (Smith, 1899) (Hydroecia) 9491
humuli Bird, 1915 (Papaipema)
ochropenta; Bird, 1916 (Papaipema) missp.
ochroptena (Dyar, 1908) (Gortyna)
93 2480 P. insulidens (Bird, 1902) (Hydroecia) 9488
birdi (Dyar, 1908) (Gortyna) [9486]
nephrasyntheta (Dyar, 1908) (Gortyna)
pertincta Dyar, 1920 (Papaipema) [9487]
93 2481 P. dribi Barnes & Benjamin, 1926 (Papaipema) 9489
93 2482 P. astuta Bird, 1907 (Papaipema) 9477
93 2483 P. harrisii (Grote, 1881) (Gortyna) 9472
anargyrea (Dyar, 1908) (Gortyna)
anargyria; Bird, 1944 (Papaipema) missp.
harrisi; [various, no date] (Papaipema) missp.
mulieris Strand, 1916 (Papaipema)
rubiginosa Bird, 1911 (Papaipema)
verona (Smith, 1899) (Hydroecia) [9476]
93 2485 P. sauzalitae (Grote, 1875) (Ochria) 9474
erubescens Bird, 1911 (Papaipema)
papaipemoides (Barnes & Benjamin, 1929) (Emboloecia)
sauzaelita; Smith, 1891 (Papaipema) missp.
93 2486 P. angelica (Smith, 1899) (Hydroecia) 9475
93 2487 P. lysimachiae Bird, 1914 (Papaipema) 9479
93 2488 P. leucostigma (Harris, 1841) (Gortyna) 9478
luteipicta Strand, 1916 (Papaipema)
purpurifascia (Grote & Robinson, 1868) (Gortyna)
93 2489 P. pterisii Bird, 1907 (Papaipema) 9480
pterissi; Moore, 1955 (Papaipema) missp.
triorthia (Dyar, 1908) (Gortyna)
93 2490 P. polymniae Bird, 1917 (Papaipema) 9469
93 2491 P. araliae Bird & Jones, 1921 (Papaipema) 9470
93 2492 P. arctivorens Hampson, 1910 (Papaipema) 9471
artivorens; Muller, 1965 (Papaipema) missp.
93 2493 P. rutila (Guenée, 1852) (Gortyna) 9484
baptisiae of authors; (not Bird, 1902) (Hydroecia) misid.
merricata; [various, no date] (Papaipema) missp.
merriccata Bird, 1907 (Papaipema)
merrickata; McDunnough, 1938 (Papaipema) missp.
placida Bird, 1921 (Papaipema)
93 2494 P. baptisiae (Bird, 1902) (Hydroecia) 9485
depictata Benjamin, 1933 (Papaipema)
vaha Benjamin, 1933 (Papaipema)
93 2495 P. limata Bird, 1902 (Papaipema) [NEW]
ochroptena of authors; (not Dyar, 1908) (Gortyna) misappl.
ochroptenoides Bird, 1944 (Papaipema)
93 2496 P. duovata (Bird, 1902) (Hydroecia) 9465
93 2497 P. cataphracta (Grote, 1864) (Gortyna) 9466
93 2498 P. sulphurata Bird, 1926 (Papaipema) 9467
93 2499 P. aerata (Lyman, 1901) (Gortyna) 9468
fluxa Bird, 1911 (Papaipema)
93 2500 P. impecuniosa (Grote, 1881) (Gortyna) 9473
93 2501 P. nebris (Guenée, 1852) (Gortyna) 9496
nitela (Guenée, 1852) (Gortyna)
nitella; Morris, 1860 (Papaipema) missp.
93 2502 P. eupatorii (Lyman, 1905) (Gortyna) 9501
93 2503 P. duplicatus Bird, 1908 (Papaipema) 9499
obsolescens Strand, 1916 (Papaipema)
93 2504 P. limpida (Guenée, 1852) (Gortyna) 9507
93 2505 P. rigida (Grote, 1877) (Gortyna) 9503
93 2506 P. nelita (Strecker, 1898) (Hydroecia) 9502
engelhardti Bird, 1939 (Papaipema)
errans Barnes & McDunnough, 1912 (Papaipema)
linda Bird, 1916 (Papaipema)
melita; Tietz, 1936 (Papaipema) missp.
orbicularis Strand, 1916 (Papaipema)
unimoda of authors; (not Smith, 1894) (Hydroecia) misappl.
93 2507 P. aweme (Lyman, 1908) (Gortyna) 9504
aveme; Hampson, 1910 (Papaipema) emend.
93 2508 P. beeriana Bird, 1923 (Papaipema) 9508
lacinaria; Hessel, 1954 (Papaipema) missp.
lacinariae Bird, 1923 (Papaipema)
93 2509 P. maritima Bird, 1909 (Papaipema) 9500
93 2510 P. necopina (Grote, 1876) (Gortyna) 9497

imperturbata Smith, 1907 (Papaipema)
mulleri Buchholz, 1956 (Papaipema)

93 2511 P. silphii Bird, 1915 (Papaipema) 9498

Genus SELICANIS Smith, 1900

93 2512 S. cinereola Smith, 1900 (Selicanis) 9430

Tribe ARZAMINI Grote, 1883

Genus BELLURA Walker, 1865
ARZAMA Walker, 1865
ARZAMOPSIS Dyar, 1922
SPHIDA Grote, 1878

93 2513 B. gortynoides Walker, 1865 (Bellura) 9523
93 2514 B. vulnifica (Grote, 1873) (Arzama) [NEW]
diffusa (Grote, 1878) (Arzama)
melanopyga (Grote, 1881) (Arzama)
93 2515 B. brehmei (Barnes & McDunnough, 1916) (Arzama) 9524
93 2516 B. anoa (Dyar, 1913) (Sphida) [NEW]
93 2517 B. obliqua (Walker, 1865) (Edema) 9525
ssp. a. obliqua (Walker, 1865) (Edema)
obliquata (Grote & Robinson, 1868) (Arzama)
ssp. b. pallida Barnes & Benjamin, 1924 (Bellura)
ssp. c. gargantua (Dyar, 1913) (Sphida)
93 2518 B. densa (Walker, 1865) (Arzama) 9526
oecogenes (Dyar, 1913) (Sphida)

Tribe XYLENINI Guenée, 1837

Subtribe XYLENINA Guenée, 1837

Genus XYLENA Ochsenheimer, 1816
AXYLIA Hübner, 1821
CALOCAMPA Stephens, 1929
COLOCAMPA; Stichel, 1908 missp.
XYLITES R. L., 1817

93 2519 X. nupera (Lintner, 1874) (Calocampa) 9873
93 2520 X. curvimacula (Morrison, 1874) (Calocampa) 9874
93 2521 X. thoracica (Putnam-Cramer, 1886) (Calocampa) 9875
brillians (Ottolengui, 1902) (Calocampa)
93 2522 X. cineritia (Grote, 1875) (Calocampa) 9876
ssp. a. cineritia (Grote, 1875) (Calocampa)
ssp. b. mertena (Smith, 1909) (Calocampa)
93 2523 X. brucei (Smith, 1892) (Calocampa) 9877

Genus LITHOMOIA Hübner, 1821
LITHOMIA; Curtis, 1838 missp.
LITHOMOEA; Hampson, 1909 missp.

93 2524 L. germana (Morrison, 1875) (Calocampa) [NEW]
albertae McDunnough, 1938 (Lithomoia)
cinerascens (Staudinger, 1871) (Calocampa)
morrisoni Barnes & Benjamin, 1922 (Lithomoia)
pallida (Tutt, 1892) ([unknown])
solidaginis of authors; (not Hübner, 1803) (Noctua) misappl. [9878]
suffusa (Tutt, 1902) ([unknown])

Genus HOMOGLAEA Morrison, 1876
EUHARVEYA Grote, 1894

93 2525 H. variegata Barnes & McDunnough, 1918 (Homoglaea) 9879
ricardi (Barnes & Benjamin, 1927) (Graptolitha)
93 2526 H. californica (Smith, 1891) (Orrhodia) 9880
insinuata (Smith, 1905) (Orrhodia)
93 2527 H. hircina Morrison, 1876 (Homoglaea) 9881
93 2528 H. dives Smith, 1907 (Homoglaea) 9882
93 2529 H. carbonaria (Harvey, 1876) (Lithophane) 9883

Genus LITHOLOMIA Grote, 1875

93 2530 L. napaea (Morrison, 1875) (Scopelosoma) 9884
ssp. a. napaea (Morrison, 1875) (Scopelosoma)
napaea Grote, 1875 (Litholomia)
ssp. b. umbrifasciata Blackmore, 1923 (Litholomia)

Genus LITHOPHANE Hübner, 1821
ID INFO (partial): Covell & Metzler (1992), Metzler (1998), Webster & Thomas (1999), Troubridge & Lafontaine (2003), Troubridge (2006b, 2020), Brou & Lafontaine (2009), Walsh (2009).
GRAPTOLITHA Hübner, 1821
RHIZOLITHA Curtis, 1830

93 2531 L. semiusta Grote, 1874 (Lithophane) 9885
93 2532 L. patefacta (Walker, 1858) (Xylina) 9886
niveocosta Franclemont, 1942 (Lithophane)
93 2533 L. bethunei (Grote & Robinson, 1868) (Xylina) 9887
duscalis Franclemont, 1942 (Lithophane)
luteocosta Franclemont, 1942 (Lithophane)
93 2534 L. innominata (Smith, 1893) (Xylina) 9888
illecebra Franclemont, 1942 (Lithophane)
93 2535 L. franclemonti Metzler, 1998 (Lithophane) [NEW]
93 2536 L. petulca Grote, 1874 (Lithophane) 9889
ferrealis Grote, 1874 (Lithophane) [9890]
93 2537 L. disposita Morrison, 1874 (Lithophane) 9892
argillocosta Franclemont, 1942 (Lithophane)
93 2538 L. hemina Grote, 1874 (Lithophane) 9893
lignicosta Franclemont, 1942 (Lithophane)
93 2539 L. lanei Troubridge, 2006 (Lithophane) [NEW]
93 2540 L. joannis Metzler & Covell, 1992 (Lithophane) [NEW]
93 2541 L. oriunda Grote, 1874 (Lithophane) 9894
canentissima Franclemont, 1942 (Lithophane)
93 2542 L. signosa (Walker, 1857) (Xylina) 9895
pallidicosta Franclemont, 1942 (Lithophane)
93 2543 L. contra (Barnes & Benjamin, 1924) (Graptolitha) 9897
93 2544 L. amanda (Smith, 1900) (Xylina) 9891
pallidior (Strand, 1916) (Graptolitha)
93 2545 L. pexata Grote, 1874 (Lithophane) 9922
ssp. a. pexata Grote, 1874 (Lithophane)
ssp. b. washingtonia Grote, 1883 (Lithophane)
93 2546 L. dilatocula (Smith, 1900) (Xylina) 9923
93 2547 L. thaxteri Grote, 1874 (Lithophane) 9928
alaskensis (Barnes, 1928) (Graptolitha)
rosetta (Barnes, 1928) (Graptolitha)
93 2548 L. fagina Morrison, 1874 (Lithophane) 9917
93 2548.1E L. lamda (Fabricius, 1787) (Noctua) EXCL. [NEW]
NOTE: Reports of this species in NA refer to *L. fagina* and *L. thaxteri*; *L. lamda* is strictly Palaearctic (Forbes 1954 listed both *thaxteri* and *fagina* as races of *L. lambda*).
93 2549 L. baileyi Grote, 1877 (Lithophane) 9902
vivida (Dyar, 1910) (Graptolitha) [9903]
93 2550 L. querquera Grote, 1874 (Lithophane) 9904
nigrescens (Engel, 1905) (Xylina) [9921]
93 2551 L. scottae Troubridge, 2006 (Lithophane) [NEW]
93 2552 L. viridipallens Grote, 1877 (Lithophane) 9905
pruena (Dyar, 1910) (Graptolitha) [9906]
93 2553 L. tepida Grote, 1874 (Lithophane) 9909
ssp. a. tepida Grote, 1874 (Lithophane)
ssp. b. atincta (Smith, 1905) (Xylina)
93 2554 L. tephrina Franclemont, 1969 (Lithophane) 9919
93 2555 L. abita Brou & Lafontaine, 2009 (Lithophane) [NEW]
93 2556 L. atara (Smith, 1909) (Xylina) 9924
93 2557 L. leeae Walsh, 2009 (Lithophane) [NEW]
93 2558 L. lepida Grote, 1878 (Lithophane) 9925
ssp. a. lepida Grote, 1878 (Lithophane)
lepida Lintner, 1878 (Lithophane)
ssp. b. adipel (Benjamin, 1936) (Graptolitha) N. STAT.
NOTE: The taxon *adipel* was treated as a subspecies of *lepida* in a revision of the *Lithophane lepida* group by Troubridge & Lafontaine (2003). In Lafontaine & Schmidt (2010) *adipel* was raised to species without further comment. The two taxa, both based on eastern NA type specimens, represent slightly different adult phenotypes that differ in geographic range and possibly larval hostplant, as detailed in Schweitzer et al. (2011) and Wagner et al. (2011). The information presented in the latter two references, in addition to novel DNA barcode data (BCS unpublished data), do not provide compelling evidence that *lepida* and *adipel* represent separate species, and *adipel* is accordingly returned to subspecies status here.
93 2560 L. ponderosa Troubridge & Lafontaine, 2003 (Lithophane) [NEW]
93 2561 L. jeffreyi Troubridge & Lafontaine, 2003 (Lithophane) [NEW]
jefferyi; Lafontaine & Schmidt, 2010 (Lithophane) missp.
93 2562 L. nasar (Smith, 1909) (Xylina) 9926
93 2563 L. vanduzeei (Barnes, 1928) (Graptolitha) 9927
93 2564 L. gausapata Grote, 1883 (Lithophane) 9896
93 2565 L. itata (Smith, 1899) (Xylina) 9920
93 2566 L. lemmeri (Barnes & Benjamin, 1929) (Graptolitha) 9899

93 2567 L. subtilis Franclemont, 1969 (Lithophane) 9900
93 2568 L. boogeri Troubridge, 2006 (Lithophane) [NEW]
93 2569 L. longior (Smith, 1899) (Xylina) 9898
93 2570 L. tarda (Barnes & Benjamin, 1925) (Graptolitha) 9918
93 2571 L. thujae Webster & Thomas, 1999 (Lithophane) [NEW]
93 2572 L. contenta Grote, 1880 (Lithophane) 9901
pomona (Smith, 1899) (Xylina)
93 2573 L. georgii Grote, 1875 (Lithophane) 9913
ssp. a. georgii Grote, 1875 (Lithophane)
ssp. b. emarginata (Smith, 1900) (Xylina)
ssp. c. holocinerea (Smith, 1900) (Xylina)
ssp. d. ancilla (Smith, 1904) (Xylina)
ssp. e. vertina (Smith, 1904) (Xylina)
ssp. f. fletcheri (Smith, 1904) (Xylina)
ssp. g. oregonensis Harvey, 1876 (Lithophane)
93 2575 L. puella (Smith, 1900) (Xylina) 9907
93 2576 L. laceyi (Barnes & McDunnough, 1913) (Graptolitha) 9908
93 2577 L. antennata (Walker, 1858) (Xylina) 9910
cinerea (Riley, 1871) (Xylina)
93 2578 L. torrida (Smith, 1899) (Xylina) 9911
93 2579 L. pertorrida (McDunnough, 1942) (Graptolitha) 9912
93 2580 L. laticinerea Grote, 1874 (Lithophane) 9914
ssp. a. laticinerea Grote, 1874 (Lithophane)
ssp. b. winnipeg (Smith, 1900) (Xylina)
93 2581 L. grotei (Riley, 1882) (Xylina) 9915
cinerosa Grote, 1879 (Lithophane)
93 2582 L. unimoda (Lintner, 1878) (Xylina) 9916
ssp. a. unimoda (Lintner, 1878) (Xylina)
ssp. b. merceda (Smith, 1904) (Xylina)

Genus PYREFERRA Franclemont, 1937
ID INFO (partial): Troubridge (2020).

93 2583 P. hesperidago (Guenée, 1852) (Hoporina) 9929
graefiana (Grote, 1874) (Scopelosoma)
indirecta (Walker, 1857) (Xanthia)
93 2583.1 P. moffatiana (Grote, 1882) (Scopelosoma) REV. STAT. [NEW]
NOTE: A previously unrecognized species of *Pyreferra*, the biology of which is discussed by Wagner et al. (2011), has been included within the concept of *P. citrombra*. Examination of the type specimens of *Pyreferra* junior synonyms reveals that the name *moffatiana* applies to this taxon, and is here raised to species status (rev. stat.). *Pyreferra moffatiana* is externally intermediate between *P. hesperidago* and *P. citrombra*, being larger than *P. citrombra* but with more curved forewing lines; compared to *P. hesperidago* it is paler overall with a less sinuate medial line. Based on DNA barcodes, the nearest relative is *P. citrombra* which differs by about 3%.
93 2584 P. citrombra Franclemont, 1941 (Pyreferra) 9930
93 2585 P. ceromatica (Grote, 1874) (Scopelosoma) 9931
93 2586 P. pettiti (Grote, 1874) (Scopelosoma) 9932
93 2586.1 P. slotteni Troubridge, 2020 (Pyreferra) [NEW]

Genus EUPSILIA Hübner, 1821
ID INFO: Lavitt & Wagner (2016).
MECOPTERA Guenée, 1837
SCOPELOSOMA Curtis, 1836

93 2587 E. vinulenta (Grote, 1864) (Dichagramma) 9933
valceri; (Hampson, 1906) (Conistra) emend.
walkeri; Lavitt & Wagner, 2016 (Eupsilia) missp.
walkerii (Grote, 1864) (Dichagramma)
93 2588 E. sidus (Guenée, 1852) (Scopelosoma) 9933.1
93 2588.1 E. colorado (Smith, 1903) (Scopelosoma) [NEW]
93 2588.2 E. schweitzeri Lavitt & Wagner, 2016 (Eupsilia) [NEW]
93 2589 E. cirripalea Franclemont, 1952 (Eupsilia) 9934
93 2590 E. tristigmata (Grote, 1877) (Scopelosoma) 9935
trisignata; Forbes & Franclemont, 1954 (Eupsilia) missp.
93 2591 E. morrisoni (Grote, 1874) (Scopelosoma) 9936
castanea (Strand, 1916) (Conistra)
opaca Chermock & Chermock, 1940 (Eupsilia)
93 2592 E. knowltoni McDunnough, 1946 (Eupsilia) 9937
93 2593 E. fringata (Barnes & McDunnough, 1916) (Conistra) 9938
93 2594 E. devia (Grote, 1875) (Scopelosoma) 9939

Genus SERICAGLAEA Franclemont, 1941

93 2594.5e S. adulta (Guenée, 1852) (Cerastis) EXCL.; nom. dub. 9940
NOTE: The description of this species is based on an Abbott painting, and cannot be identified with certainty. It was listed twice by Franclemont & Todd (in Hodges et al. 1983), in *Sericaglaea* (MONA No. 9940) and in error in *Rhynchagrotis* (MONA No. 11044).
93 2595 S. signata (French, 1879) (Orthosia) 9941

Genus XYSTOPEPLUS Franclemont, 1937

93 2596 X. rufago (Hübner, 1818) (Jodia) 9942
honesta (Walker, 1858) (Cirraedia)

Genus METAXAGLAEA Franclemont, 1937
ID INFO: Schweitzer (1979).

93 2597 M. inulta (Grote, 1874) (Orthosia) 9943
93 2598 M. viatica (Grote, 1874) (Orthosia) 9944
93 2599 M. semitaria Franclemont, 1968 (Metaxaglaea) 9945
93 2600 M. australis Schweitzer, 1979 (Metaxaglaea) 9945.1
93 2601 M. violacea Schweitzer, 1979 (Metaxaglaea) 9945.2

Genus EPIGLAEA Grote, 1878
HARPAGLAEA Hampson, 1906

93 2602 E. decliva (Grote, 1874) (Orthosia) 9946
deleta (Grote, 1877) (Glaea)
93 2603 E. apiata (Grote, 1874) (Orthosia) 9947
pastillicans (Morrison, 1875) (Glaea)

Genus CHAETAGLAEA Franclemont, 1943
ID INFO: Franclemont (1943), also Brou (1997), Stead & Troubridge (2016).

93 2604 C. cerata Franclemont, 1943 (Chaetaglaea) 9948
93 2605 C. fergusoni Brou, 1997 (Chaetaglaea) [NEW]
93 2606 C. tremula (Harvey, 1875) (Glaea) 9949
93 2606.1 C. rhonda Stead & Troubridge, 2016 (Chaetaglaea) [NEW]
93 2607 C. sericea (Morrison, 1875) (Glaea) 9950
venustula (Grote, 1875) (Glaea)

Genus PSECTRAGLAEA Hampson, 1906

93 2608 P. carnosa (Grote, 1877) (Glaea) 9951

Genus EUCIRROEDIA Grote, 1875
EUCIRRHOEDIA; McDunnough, 1938 missp.

93 2609 E. pampina (Guenée, 1852) (Cirroedia) 9952
ssp. a. pampina (Guenée, 1852) (Cirroedia)
brunneoochracea (Strand, 1916) (Atethmia)
pampinella (Strand, 1916) (Atethmia)
ssp. b. glenwoodi (Barnes & Benjamin, 1922) (Atethmia)

Genus MESOGONA Boisduval, 1840
ID INFO: Crabo & Hammond (1997).
PSEUDOGLAEA Grote, 1876

93 2610 M. olivata (Harvey, 1874) (Glaea) 9953
blanda (Grote, 1876) (Choephora)
decepta (Grote, 1881) (Pseudoglaea)
taedata (Grote, 1876) (Pseudoglaea)
93 2611 M. rubra Hammond & Crabo, [1998] (Mesogona) [NEW]
93 2612 M. subcuprea Crabo & Hammond, [1998] (Mesogona) [NEW]

Genus AGROCHOLA Hübner, 1821
ANCHOCELIS; Stephens, 1850 missp.
ANCHOSCELIS Guenée, 1839
LYCANADES Franclemont, 1937
OMPHALOSCELIS Hampson, 1906

93 2613 A. purpurea (Grote, 1874) (Orthosia) 9954
antapica (Smith, 1907) (Orthosia)
crispa (Harvey, 1875) (Orthosia)
formica; Rindge, 1955 (Agrochola) missp.
fornica (Smith, 1907) (Orthosia)
93 2614 A. pulchella (Smith, 1900) (Xanthia) 9955
93 2615 A. lota (Clerck, 1759) (Phalaena) I 9956
NOTE: Introduced from the Old World to NL, first found in 1976 (Franclemont & Todd, in: Hodges et al. 1983; Zahiri et al. 2017).
americana (Morrison, 1875) (Orthosia)

hippophaes (Goeze, 1781) (Phalaena)
munda Hübner, 1803 (Agrochola)
pallida (Tutt, 1892) ([unknown])
rufa (Tutt, 1892) ([unknown])
subdita (Warren, 1910) ([unknown])
suffusa (Tutt, 1892) ([unknown])

93 2615.1E A. helvola (Linnaeus, 1758) (Phalaena) EXCL. [NEW]
NOTE: All NA reports of *A. helvola*, generally as "*Nephelodes emmedonia pectinata* Smith, 1888", are erroneous. (*Phalaena emmedonia* is now a synonym of *A. helvola*). In NA, these records refer to *A. lota* in NL, and to *Nephelodes minians* (Noctuinae: Tholerini) elsewhere on the continent.
emmedonia (Cramer, [1779]) (Phalaena) (excl.)

93 2615.2 A. lunosa (Haworth, 1809) (Noctua) I [NEW]
NOTE: This European species was introduced to USA, and first detected in the Washington, DC area in 2013. As of this writing, iNaturalist records indicate it is now also present in adjacent parts of VA and MD. This species was reported as *Omphaloscelis lunosa* in Schmidt & Lafontaine (2018), but that genus was synonymized by Fibiger et al. (2010).
subjecta (Duponchel, 1836) (Orthosia)

Genus SUNIRA Franclemont, 1950

93 2616 S. bicolorago (Guenée, 1852) (Xanthia) 9957
ferrugineoides (Guenée, 1852) (Xanthia)
spurcata (Walker, 1857) (Xanthia)
straminea (Smith, 1907) (Orthosia) *[9959]*

93 2617 S. decipiens (Grote, 1881) (Orthosia) 9958
NOTE: The western NA species is currently known as *S. decipiens*, but that name may not be correct. Franclemont (in Forbes 1954) treated *decipiens* as a form of *S. bicolorago* and returned *acta* to full species, which may be the correct arrangement. The type locality of *decipiens* was purportedly IL, but the type specimen appears to be lost so a neotype is needed to resolve this issue. Franclemont & Todd (in Hodges et al. 1983) subsequently treated *decipiens* as a full species with *acta* as a synonym but without explanation. Herein we retain the latter interpretation pending taxonomic work.
acta (Smith, 1907) (Orthosia)

93 2618 S. verberata (Smith, 1904) (Orthosia) 9960

Genus ANATHIX Franclemont, 1937

93 2619 A. ralla (Grote & Robinson, 1868) (Xanthia) 9961
93 2620 A. puta (Grote & Robinson, 1868) (Xanthia) 9962
ssp. a. puta (Grote & Robinson, 1868) (Xanthia)
euroa (Grote & Robinson, 1873) (Xanthia)
ssp. b. dusca (Smith, 1908) (Orthosia)
duscata; Smith, 1908 (Anathix) missp.

93 2621 A. aggressa (Smith, 1907) (Orthosia) 9963
93 2621.1 A. immaculata (Morrison, 1875) (Orthosia)
ident. uncert. 9964
NOTE: The identity of this species is unknown, as the type cannot be located. It was placed in *Anathix* by Franclemont & Todd (in Hodges et al. 1983).

Genus XANTHIA Ochsenheimer, 1816
ID INFO: Lafontaine & Mikkola (2003).
CIRRHIA Hübner, 1821
CITRIA Hübner, 1821
EUTHEMONIA Gistel, 1848
MELLINIA Hübner, 1821
TILIACEA Tutt, 1896
VITRIA Hübner, 1821

93 2622 X. tatago Lafontaine & Mikkola, 2003 (Xanthia) [NEW]
flavago of authors; (not Fabricius, 1787) (Noctua) misappl.
lutea of authors; (not Ström, 1783) (Phalaena) misappl.
togata of authors; (not Esper, 1788) (Phalaena) misappl. *[9965]*

Genus HILLIA Grote, 1883
CRASIA Aurivillius, 1891

93 2623 H. maida (Dyar, 1904) (Hadena) 9966
93 2624 H. iris (Zetterstedt, 1839) (Hadena) H 9967
crasis (Herrich-Schäffer, 1851) (Noctua)
erdmanni (Möschler, 1874) (Agrotis)
semisigna (Walker, 1857) (Orthosia)
senescens (Grote, 1878) (Hadena)
vigilans (Grote, 1878) (Hadena)

Genus PARASTICHTIS Hübner, 1821

93 2625 P. suspecta (Hübner, [1817]) (Noctua) [NEW]
discivaria (Walker, 1856) (Bryophila) *[9431]*
gentilis (Grote, 1874) (Taeniosea)
perbellis (Grote, 1874) (Taeniosea)

Genus ASEPTIS McDunnough, 1937
ID INFO: Mustelin & Crabo (2015).
NOTE: The species groups and sort order of Mustelin & Crabo (2015) are not used here, as not all species were placed therein.

93 2626 A. fumosa (Grote, 1879) (Hadena) 9527
93 2627 A. catalina (Smith, 1899) (Hadena) 9528
93 2628 A. perfumosa (Hampson, 1918) (Trachea) 9529
93 2629 A. fumeola (Hampson, 1908) (Trachea) 9530
probata (Barnes & McDunnough, 1910) (Trachea)
93 2630 A. ethnica (Smith, 1899) (Hadena) 9531
93 2631 A. fanatica Mustelin, 2006 (Aseptis) [NEW]
fannatica; Lafontaine & Schmidt, 2010 (Aseptis) missp.
93 2632 A. ferruginea Mustelin, 2000 (Aseptis) [NEW]
93 2633 A. murina Mustelin, 2000 (Aseptis) [NEW]
93 2634 A. binotata (Walker, 1865) (Mamestra) 9532
bultata (Smith, 1906) (Hadena) *[9542]*
cara (Barnes & McDunnough, 1912) (Trachea) *[9538]*
curvata (Grote, 1874) (Hadena)
dilara (Strecker, 1899) (Hadena) *[9537]*
extersa (Walker, 1865) (Hadena)
genetrix; ([various, no date]) (Hadena) missp. *[9536]*
genitrix (Grote, 1878) (Hadena)
inconspicua (Smith, 1893) (Hadena)
paviae (Strecker, 1874) (Taeniocampa) *[9534]*
rubiginosa (Walker, 1865) (Miana)
93 2638 A. pseudolichena Mustelin & Leuschner, 2000 (Aseptis) [NEW]
93 2639 A. lichena (Barnes & McDunnough, 1912) (Andropolia) 9574
93 2643 A. susquesa (Smith, 1908) (Hadena) 9539
monica (Barnes & McDunnough, 1918) (Trachea) *[9540]*
93 2645 A. serrula (Barnes & McDunnough, 1918) (Trachea) 9541
93 2645.1 A. harpi Crabo & Mustelin, 2018 (Aseptis) [NEW]
93 2646 A. torreyana Mustelin, 2006 (Aseptis) [NEW]
93 2648 A. characta (Grote, 1880) (Hadena) 9543
erica (Smith, 1905) (Hadena)
luteocincerea (Smith, 1900) (Hadena)
pluraloides (McDunnough, 1922) (Trachea)

Genus PARASEPTIS Mustelin & Crabo, 2015
ID INFO: Mustelin & Crabo (2015).

93 2648.5 P. adnixa (Grote, 1880) (Hadena) 9533
pausis (Smith, 1899) (Hadena) *[9535]*

Genus EPIDEMAS Smith, 1894

93 2650 E. cinerea Smith, 1894 (Epidemas) [NEW]
cinera; Franclemont & Todd, 1983 (Epidemas) missp. *[10002]*
93 2651 E. obscurus Smith, 1903 (Epidemas) 10003
melanographa Hampson, 1906 (Epidemas) *[10004]*

Genus BRACHYLOMIA Hampson, 1906
ID INFO: Troubridge & Lafontaine (2007).
ITEOPHAGA Boursin, 1965
LOMILYSIS Franclemont, 1937

93 2652 B. elda (French, 1887) (Homohadena) 9994
93 2653 B. populi (Strecker, 1898) (Cleoceris) 9993
albidior Strand, 1916 (Brachylomia)
contracta Strand, 1916 (Brachylomia)
93 2654 B. algens (Grote, 1878) (Hadena) 9998
93 2655 B. discolor (Smith, 1904) (Cleoceris) 10001
93 2656 B. discinigra (Walker, 1856) (Bryophila) 9999
93 2657 B. curvifascia (Smith, 1891) (Dryobota) 9996
93 2658 B. obscurifascia Troubridge & Lafontaine, 2007 (Brachylomia) [NEW]
93 2659 B. rectifascia (Smith, 1891) (Dryobota) 9995
93 2660 B. pallida Troubridge & Lafontaine, 2007 (Brachylomia) [NEW]
93 2661 B. cascadia Troubridge & Lafontaine, 2007 (Brachylomia) [NEW]
93 2662 B. thula (Strecker, 1898) (Hadena) 9997

93 2663 B. sierra Troubridge & Lafontaine, 2007 (Brachylomia) [NEW]

Genus HYPPA Duponchel, 1845
ID INFO: Troubridge & Lafontaine (2004).

93 2664 H. xylinoides (Guenée, 1852) (Hadena) 9578
ancocisconensis (Morrison, 1875) (Hadena)
contraria (Walker, 1857) (Xylina)
93 2665 H. contrasta McDunnough, 1946 (Hyppa) 9579
93 2666 H. potamus Troubridge & Lafontaine, 2004 (Hyppa) [NEW]
93 2667 H. brunneicrista Smith, 1902 (Hyppa) 9580
93 2668 H. indistincta Smith, 1894 (Hyppa) 9581

Subtribe COSMIINA Guenée, 1852

Genus COSMIA Ochsenheimer, 1816
ID INFO: Lafontaine & Troubridge (2003).

93 2669 C. epipaschia (Grote, 1883) (Homohadena) 9813
93 2670 C. praeacuta (Smith, 1894) (Platyperigea) 9814
nigramacula (Barnes & Benjamin, 1926) (Namangana)
orae (Barnes & Benjamin, 1926) (Namangana)
parvimacula (Smith, 1903) (Chytonix)
93 2671 C. elisae Lafontaine & Troubridge, 2003 (Cosmia) [NEW]
93 2672 C. calami (Harvey, 1876) (Calymnia) 9815
calamia; McDunnough, 1938 (Cosmia) missp.
canescens (Behr, 1885) (Atethmia)
orinella (Strand, 1916) ([unknown])
orinula (Strand, 1916) ([unknown])

Genus ZOTHECA Grote, 1874

93 2673 Z. tranquilla Grote, 1874 (Zotheca) 9816
sambuci (Strecker, 1874) (Cosmia)
viridula Grote, 1878 (Zotheca)

Genus ENARGIA Hübner, 1821
ID INFO: Schmidt (2010).

93 2674 E. decolor (Walker, 1858) (Mythimna) 9549
discolor; Smith, 1893 (Enargia) missp.
mia Strand, 1916 (Enargia)
paleacea of authors; (not Esper, 1788) (Phalaena) misappl.
sia Strand, 1916 (Enargia)
93 2675 E. infumata (Grote, 1874) (Orthosia) 9550
mephisto Franclemont, 1939 (Enargia) *[9551]*
punctirena (Smith, 1900) (Cosmia)
93 2676 E. fausta Schmidt, 2010 (Enargia) [NEW]
NOTE: Prior to its description in 2010, this species was treated within the concept of *E. infumata*.

Genus IPIMORPHA Hübner, 1821
PLASTENSIS Boisduval, 1840
ZENOBIA Agassiz, 1846
ZENOBIA Oken, 1815

93 2677 I. nanaimo Barnes, 1905 (Ipimorpha) 9552
93 2678 I. viridipallida Barnes & McDunnough, 1916 (Ipimorpha) 9553
93 2679 I. pleonectusa Grote, 1873 (Ipimorpha) 9555
ssp. a. pleonectusa Grote, 1873 (Ipimorpha)
aequilinea (Smith, 1883) (Calymnia)
intexta Harvey, 1875 (Ipimorpha) N. SYN.
NOTE: This name was inadvertently omitted in most NA checklists, but included as a valid species by Poole (1989). The type, purported to be in the NHMUK by Poole, was not located during a search of all Nearctic Noctuidae types in the NHMUK in 2007 (Don Lafontaine, pers. comm.). Since only a single species of the distinct genus *Ipimorpha* occurs in eastern North America, and since Harvey described *intexta* as being slightly darker and more slender than *I. pleonectusa*, with both taxa from exactly the same TL (Sharon Springs, NY), *intexta* is here placed in synonymy under *I. pleonectusa* (n. syn.).
ssp. b. manitobae McDunnough, 1938 (Ipimorpha)
subvexa Grote, 1876 (Ipimorpha) *[9554]*

Subtribe ANTITYPINA Forbes & Franclemont, 1954

Genus ANDROPOLIA Grote, 1895

93 2680 A. diversilineata (Grote, 1877) (Hadena) 9563
illepida (Grote, 1879) (Polia)
resoluta (Smith, 1894) (Polia)
submissa Smith, 1911 (Andropolia)
93 2681 A. contacta (Walker, 1856) (Acronycta) 9564
ssp. a. contacta (Walker, 1856) (Acronycta)
aspera (Morrison, 1875) (Acronycta)
diffusilis (Harvey, 1878) (Polia)
extincta (Smith, 1900) (Polia) *[9573]*
sansar (Strecker, 1898) (Polia) *[9566]*
ssp. b. pulverulenta (Smith, 1891) (Polia)
93 2682 A. olorina (Grote, 1876) (Hadena) 9569
ssp. a. olorina (Grote, 1876) (Hadena)
ssp. b. australiae Grote, 1895 (Andropolia)
93 2683 A. olga Smith, 1911 (Andropolia) 9572
93 2684 A. aedon (Grote, 1880) (Polia) 9570
93 2685 A. theodori (Grote, 1878) (Apatela) 9571
ssp. a. theodori (Grote, 1878) (Apatela)
ssp. b. epichysis (Grote, 1880) (Polia)
ssp. c. vancouvera McDunnough, 1938 (Andropolia)

Genus POLYMIXIS Hübner, [1820] (excl.)

93 2685.5E P. flavicincta ([Denis & Schiffermüller], 1775) (Noctua) EXCL. [NEW]
NOTE: Listed for NA as *Andropolia ochracea*, a synonym, based on the type locality of "Iowa", which was erroneous. The taxon *ochracea* is a synonym of the Old World species *P. flavicincta*.
ochracea (Smith, 1900) (Polia) (excl.) *[9567]*

Genus RHIZAGROTIS Smith, 1890
CERAPODA Smith, 1893
CEROPODA; Smith, 1894 missp.

93 2686 R. cloanthoides (Grote, 1881) (Agrotis) 9575
93 2687 R. albalis (Grote, 1878) (Agrotis) 9576
ssp. a. albalis (Grote, 1878) (Agrotis)
ssp. b. actona Smith, 1910 (Rhizagrotis)
defectipes (Dyar, 1921) (Cerapoda)
93 2688 R. modesta (Barnes & McDunnough, 1911) (Prochloridea) 9838
madonna (Barnes & Lindsey, 1921) (Prochloridea)
93 2689 R. stylata (Smith, 1893) (Cerapoda) 10176
ssp. a. stylata (Smith, 1893) (Cerapoda)
ssp. b. arida (Barnes & Benjamin, 1923) (Cerapoda)

Genus PSEUDOHADENA Alphéraky, 1889

93 2690 P. vulnerea (Grote, 1883) (Homohadena) 9577

Genus FISHIA Grote, 1877
ID INFO (partial): Crabo et al. (2013).

93 2691 F. discors (Grote, 1881) (Hadena) 9970
evelina (French, 1888) (Hadena) *[9969]*
hanhami Smith, 1909 (Fishia)
vinela Smith, 1904 (Fishia)
93 2692 F. connecta (Smith, 1894) (Polia) 9971
cupola (Hampson, 1913) (Anytus)
93 2693 F. yosemitae (Grote, 1873) (Cucullia) 9972
betsia Smith, 1905 (Fishia) *[9973]*
derelicta (Hampson, 1913) (Anytus)
enthea Grote, 1877 (Fishia) *[9974]*
exhilarata Smith, 1903 (Fishia)
instruta Smith, 1910 (Fishia) *[9975]*
tortilis (Grote, 1880) (Hadena) *[9968]*
93 2693.1 F. nigrescens Hammond & Crabo, 2013 (Fishia) [NEW]
93 2694 F. dispar (Smith, 1900) (Polia) 9568
93 2695 F. illocata (Walker, 1857) (Hadena) 9420
stigmata (Grote, 1875) (Dryobota)

Genus PLATYPOLIA Grote, 1895
EUROTYPE Hampson, 1906

93 2696 P. anceps (Stephens, 1850) (Polia) 9976
acutissima (Grote, 1875) (Pachypolia)
aplectoides (Guenée, 1852) (Hadena)
confragosa (Morrison, 1875) (Polia)
medialis (Grote, 1876) (Polia)
93 2697 P. contadina (Smith, 1894) (Polia) 9977
ssp. a. contadina (Smith, 1894) (Polia)
ssp. b. albertae McDunnough, 1935 (Platypolia)
93 2698 P. loda (Strecker, 1898) (Hadena) 9978

ssp. a. loda (Strecker, 1898) (Hadena)
albiserrata (Smith, 1903) (Hadena)
ssp. b. gunderi (Barnes & Benjamin, 1927) (Eumichtis)

Genus "PLATYPOLIA" Grote, 1895 PROV. PL.
NOTE: Lafontaine & Schmidt (2010) moved this species from *Oligia* and tentatively placed it here.

93 2699 P. mactata (Guenée, 1852) (Apamea) mispl. 9419
ssp. a. mactata (Guenée, 1852) (Apamea) mispl.
ssp. b. allecto (Smith, 1899) (Hadena) mispl.

Genus XYLOTYPE Hampson, 1906

93 2700 X. capax (Grote & Robinson, 1868) (Xylina) 9979
93 2701 X. arcadia Barnes & Benjamin, 1922 (Xylotype) [NEW]
acadia; Barnes & Benjamin, 1922 (Xylotype) emend. *[9980]*

Genus DRYOTYPE Hampson, 1906

93 2702 D. opina (Grote, 1878) (Dryobota) 9981

Genus MNIOTYPE Franclemont, 1941

93 2703 M. adusta (Esper, 1790) (Phalaena) H [NEW]
groelandica (Zetterstedt, 1839) (Hadena)
sommeri (Lefèbvre, 1836) (Hadena) *[9982]*
93 2704 M. pallescens McDunnough, 1946 (Mniotype) 9983
93 2705 M. ducta (Grote, 1878) (Hadena) 9987
moilena (Strecker, 1898) (Hadena)
versuta (Smith, 1895) (Xylophasia) *[9984]*
93 2706 M. tenera (Smith, 1900) (Hadena) 9988
ferida (Smith, 1908) (Hadena)
fervida; (Franclemont & Todd, 1983) (Hadena) missp. *[9986]*
miniota (Smith, 1908) (Xylophasia) *[9985]*

Genus SUTYNA Todd, 1958
AMYTUS; Grünberg, 1910 missp.
ANYTUS Grote, 1873

93 2707 S. privata (Walker, 1857) (Polia) 9989
ssp. a. privata (Walker, 1857) (Gonitis)
monstrata (Walker, 1857) (Acronycta)
obscurus (Smith, 1900) (Anytus)
profundus (Smith, 1900) (Anytus) *[9990]*
sculpta (Grote, 1873) (Xylina)
teltowa (Smith, 1910) (Anytus)
tenuilinea (Smith, 1903) (Anytus) *[9991]*
ssp. b. planus (Grote, 1882) (Anytus)

Genus PACHYPOLIA Grote, 1874

93 2708 P. atricornis Grote, 1874 (Pachypolia) 9992

Subtribe UFEINA Crumb, 1956

Genus UFEUS Grote, 1873
ID INFO: Lafontaine & Walsh (2013).

93 2709 U. satyricus Grote, 1873 (Ufeus) 11051
ssp. a. satyricus Grote, 1873 (Ufeus)
barometricus (Goossens, 1881) (Asterocampus)
ssp. b. sagittarius Grote, 1883 (Ufeus)
electra Smith, 1908 (Ufeus)
93 2710 U. plicatus Grote, 1873 (Ufeus) 11052
coloradica Strand, 1916 (Ufeus)
unicolor Grote, 1878 (Ufeus) *[11054]*
93 2711 U. hulstii Smith, 1908 (Ufeus) [NEW]
93 2711.1 U. felsensteini Lafontaine & Walsh, 2013 (Ufeus) [NEW]
93 2712 U. faunus Strecker, 1898 (Ufeus) 11053

[XYLENINI – Unplaced to Subtribe]

Genus VIRIDISEPTIS Mustelin & Crabo, 2015
ID INFO: Mustelin & Crabo (2015).

93 2749.5 V. marina (Grote, 1874) (Hadena) 9403

Tribe ORTHOSIINI Guenée, 1837

Genus PERIGONICA Smith, 1890

93 2750 P. tertia Dyar, 1903 (Perigonica) 10464
fermata Smith, 1911 (Perigonica) *[10465]*
93 2751 P. fulminans Smith, 1890 (Perigonica) 10466
93 2752 P. eldana Smith, 1911 (Perigonica) 10467
93 2753 P. angulata Smith, 1890 (Perigonica) 10468
93 2754 P. pectinata (Smith, 1888) (Taeniocampa) 10469
ssp. a. pectinata (Smith, 1888) (Taeniocampa)
johnstoni (McDunnough, 1943) (Orthosia) *[10483]*
ssp. b. punctilinea Smith, 1906 (Perigonica)

Genus ACERRA Grote, 1874

93 2755 A. normalis Grote, 1874 (Acerra) 10470

Genus STRETCHIA Edwards, 1874
ID INFO: McDunnough (1949a).

93 2756 S. plusiaeformis Edwards, 1874 (Stretchia) 10471
NOTE: This species was misnumbered as P-No. 932656 by Schmidt et al. (2018) in their checklist update.
coloradicola Strand, 1917 (Stretchia)
plusiiformis; Poole, 1989 (Stretchia) missp.
93 2757 S. pictipennis McDunnough, 1949 (Stretchia) 10472
93 2758 S. muricina (Grote, 1876) (Acerra) 10473
93 2759 S. pacifica McDunnough, 1949 (Stretchia) 10474
93 2760 S. inferior (Smith, 1888) (Perigrapha) 10475
93 2761 S. prima (Smith, 1891) (Perigrapha) 10476

Genus ORTHOSIA Ochsenheimer, 1816
ANACTA; Kristensen, 1966 missp.
ANCATA Căpuşe, 1958
CUPHANOA Hübner, 1821
MONIMA Hübner, 1821
ORTHOA Billberg, 1820
SEMIOPHORA Stephens, 1829
TAENIOCAMPA Guenée, 1852

93 2762 O. erythrolita (Grote, 1879) (Graphiphora) 10477
acutuangula (Smith, 1911) (Stretchia)
apicata (Smith, 1911) (Stretchia)
erythrolitoides (Strand, 1917) ([unknown])
93 2763 O. pulchella (Harvey, 1876) (Graphiphora) 10478
ssp. a. pulchella (Harvey, 1876) (Graphiphora)
addenda (Smith, 1890) (Taeniocampa)
orbiculata (Smith, 1911) (Stretchia)
palomarensis (Hill, 1924) (Perographa)
ssp. b. achsha (Dyar, 1904) (Perigrapha)
algula (Smith, 1911) (Stretchia)
ssp. c. hepatica (Barnes & McDunnough, 1911) (Monima)
93 2764 O. transparens (Grote, 1882) (Perigrapha) 10479
fringata (Smith, 1908) (Taeniocampa)
hamifera Grote, 1888 (Orthosia)
93 2765 O. praeses (Grote, 1879) (Perigrapha) 10480
saleppa (Smith, 1907) (Taeniocampa)
stigmata (Barnes & Benjamin, 1924) (Perigrapha)
93 2766 O. mys (Dyar, 1903) (Stretchia) 10481
ssp. a. mys (Dyar, 1903) (Stretchia)
ssp. b. caloramica (Barnes & McDunnough, 1911) (Monima)
agravens (Barnes & McDunnough, 1911) (Monima)
93 2767 O. ferrigera (Smith, 1894) (Taeniocampa) 10482
puncticostata (Dyar, 1921) (Perigrapha)
strigatteria (Hill, 1923) (Perigrapha)
93 2768 O. terminata (Smith, 1888) (Taeniocampa) 10484
93 2769 O. behrensiana (Grote, 1875) (Graphiphora) 10485
macona (Smith, 1908) (Taeniocampa) *[10486]*
93 2770 O. rubescens (Walker, 1865) (Apamea) 10487
rubrescens; [various, no date] (Orthosia) missp.
venata (Smith, 1890) (Taeniocampa)
93 2771 O. garmani (Grote, 1879) (Graphiphora) 10488
93 2772 O. arthrolita (Harvey, 1875) (Graphiphora) 10489
93 2773 O. revicta (Morrison, 1876) (Taeniocampa) 10490
subterminalis; (Smith, 1890) (Taeniocampa) missp.
subterminata (Smith, 1888) (Taeniocampa)
93 2774 O. alurina (Smith, 1902) (Taeniocampa) 10491

932776 O. segregata (Smith, 1893) (Mamestra) 10493
ssp. a. segregata (Smith, 1893) (Mamestra)
gussata (Smith, 1895) (Mamestra)
negussa (Smith, 1900) (Mamestra)
ssp. b. plicata (Smith, 1898) (Mamestra)
932777 O. pacifica (Harvey, 1874) (Taeniocampa) 10494
infrapicta (Strand, 1917) ([unknown])
932778 O. hibisci (Guenée, 1852) (Taeniocampa) 10495
ssp. a. hibisci (Guenée, 1852) (Taeniocampa)
confluens (Morrison, 1875) (Taeniocampa)
insciens Walker, 1857 (Orthosia)
ssp. b. brucei (Smith, 1910) (Taeniocampa)
malora (Smith, 1910) (Taeniocampa)
ssp. c. nubilata (Smith, 1910) (Taeniocampa)
ssp. d. quinquefasciata (Smith, 1909) (Taeniocampa)
inflava (Smith, 1910) (Taeniocampa)
inherita (Smith, 1910) (Taeniocampa)
latirena (Dod, 1910) (Taeniocampa)
proba (Smith, 1910) (Taeniocampa)
932779 O. flaviannula (Smith, 1899) (Taeniocampa) 10496
932780 O. annulimacula (Smith, 1891) (Taeniocampa) 10497
932781 O. tenuimacula (Barnes & McDunnough, 1913) (Monima) 10498
mediomacula Barnes & Benjamin, 1924 (Orthosia) *[10499]*
nongenerica Barnes & Benjamin, 1924 (Orthosia) *[10500]*
2781.1 O. disticha Grote, 1875 (Orthosia) [NEW]
NOTE: Missed in previous checklists, including Franclemont & Todd (in Hodges et al. 1983) and Pohl et al. (2016). TL: TX. The identity of this taxon is currently unknown as the type specimen appears to be lost, as is the case for many Grote types.

Genus CROCIGRAPHA Grote, 1875

932784 C. normani (Grote, 1874) (Perigrapha) 10501

Genus KOCAKINA Özdikmen & Seven, 2006
NOTE: *Kocakina* is a replacement name for *Himella* Grote, 1874, a junior homonym of *Himella* Dallas, 1852 (Hemiptera: Coreidae). *Orthimella* Schmidt & Lafontaine, 2018 was also proposed as a replacement name for *Himella* Grote (Contributed by Ray Perreault).
HIMELLA Grote, 1874 preocc.
ORTHIMELLA Schmidt & Lafontaine, 2018

932785 K. fidelis (Grote, 1874) (Himella) [NEW]
intractata (Morrison, 1875) (Taeniocampa) *[10502]*

Genus EGIRA Duponchel, 1845
XYLOMANIA Hampson, 1905
XYLOMYGES Guenée, 1852

932786 E. baueri (Buckett, 1968) (Xylomiges) 10503
932787 E. variabilis (Smith, 1891) (Stretchia) 10504
932788 E. hiemalis (Grote, 1874) (Xylomiges) 10505
californica (Strecker, 1874) (Dryobota)
932789 E. simplex (Walker, 1865) (Acronycta) 10506
pallidior (Smith, 1899) (Xylomiges)
932790 E. vanduzeei (Barnes & Benjamin, 1926) (Xylomyges) 10507
932791 E. crucialis (Harvey, 1875) (Xylomiges) 10508
peritalis (Smith, 1892) (Xylomiges)
932792 E. cognata (Smith, 1894) (Xylomiges) 10509
ssp. a. cognata (Smith, 1894) (Xylomyges)
ssp. b. minorata (Barnes & McDunnough, 1918) (Xylomyges)
932793 E. februalis (Barnes & McDunnough, 1918) (Xylomyges) 10510
932794 E. curialis (Grote, 1873) (Xylomiges) 10511
ssp. a. curialis (Grote, 1873) (Xylomiges)
argus (Smith, 1909) (Xylomiges)
candida (Smith, 1894) (Xylomiges) *[10512]*
ssp. b. indurata (Smith, 1894) (Xylomiges)
ssp. c. nicalis (Smith, 1909) (Xylomiges)
ssp. d. tantiva (Smith, 1909) (Xylomiges)
932795 E. dolosa (Grote, 1880) (Xylomiges) 10513
932796 E. rubrica (Harvey, 1878) (Graphiphora) 10514
ssp. a. rubrica (Harvey, 1878) (Graphiphora)
ssp. b. rubricoides (Barnes & Benjamin, 1924) (Xylomyges)
ssp. c. mustelina (Smith, 1911) (Xylomiges)
ssp. d. pulchella (Smith, 1894) (Xylomiges)
932797 E. perlubens (Grote, 1881) (Xylomiges) 10515
subapicalis (Smith, 1888) (Mamestra)
932798 E. purpurea (Barnes & McDunnough, 1910) (Polia) 10516
932799 E. alternans (Walker, [1857]) (Hapalia) 10517
onychina (Guenée, 1852) (Epunda)
nomen oblitum *[10000]*
NOTE: Synonymy by Troubridge & Lafontaine (2007).
tabulata (Grote, 1878) (Xylomiges)

Genus ACHATIA Hübner, 1813
ASTRAPETIS Hübner, 1821

932800 A. distincta Hübner, 1813 (Achatia) 10518
vitis (French, 1879) (Dicopis)

Genus MORRISONIA Grote, 1874
ID INFO (partial): Sullivan & Adams (2009).

932801 M. mucens (Hübner, [1831]) (Septis) 10519
multifaria (Walker, 1857) (Xylina)
rileyana Smith, 1890 (Morrisonia)
sectilana Strand, 1917 (Morrisonia)
sectilis (Guenée, 1852) (Xylophasia)
spoliata (Walker, 1857) (Xylina)
932802 M. evicta (Grote, 1873) (Cloantha) 10520
infidelis Grote, 1879 (Morrisonia)
vomerina (Grote, 1873) (Cloantha)
932803 M. confusa (Hübner, [1831]) (Auchmis) 10521
infructuosa (Walker, 1857) (Xylina)
932804 M. triangula Sullivan & Adams, 2009 (Morrisonia) [NEW]
932805 M. latex (Guenée, 1852) (Aplecta) 10291
demissa (Walker, 1857) (Apamea)

Genus ENGELHARDTIA Barnes & Benjamin, 1923
NOTE: The genitalic morphology, winter / spring adult flight time and DNA barcodes associate this odd monotypic genus with orthosiines, and it is hereby transferred to Orthosiini. It was previously placed in Noctuinae: Eriopygini.

932805.5 E. ursina (Smith, 1898) (Lathosea) 10625

Tribe THOLERINI Beck, 1996

Genus CERAPTERYX Curtis, 1833

932808 C. graminis (Linnaeus, 1758) (Phalaena) I 10522
NOTE: Introduced from Europe to NL in about 1966, according to Zahiri et al. (2014).
albineura (Boisduval, 1837) (Heliophobus)
friesica Bryk, 1936 (Cerapteryx)
hibernicus Curtis, 1833 (Cerapteryx)
megala (Alphéraky, 1882) (Charaeas)
tricuspis (Esper, 1786) (Bombyx)

Genus THOLERA Hübner, 1821
CHARAEAS Stephens, 1829
EPINEURONIA Rebel, 1901
NEURONIA Hübner, 1821

932809 T. americana (Smith, 1894) (Neuronia) 10523

Genus NEPHELODES Guenée, 1852
MONOSCA Walker, 1869
MONOSTOLA Alphéraky, 1892

932810 N. minians Guenée, 1852 (Nephelodes) 10524
emmedonia of authors; (not Cramer, [1779]) (Phalaena) misappl.
ssp. a. minians Guenée, 1852 (Nephelodes)
adusta Buckett, 1973 (Nephelodes) *[10527]*
expansa (Walker, 1857) (Graphiphora)
mendica Barnes & Lindsey, 1921 (Nephelodes) *[10526]*
rubeolans Guenée, 1852 (Nephelodes)
subdolens (Walker, 1857) (Graphiphora)
subnotata (Walker, 1869) (Monosca)
violans Guenée, 1852 (Nephelodes)
ssp. b. tertialis Smith, 1903 (Nephelodes)
ssp. c. pectinatus Smith, 1900 (Nephelodes)

93 2811 N. demaculata Barnes & McDunnough, 1918 (Nephelodes) 10525
93 2814 N. carminata (Smith, 1890) (Taeniocampa) 10528

Tribe HADENINI Guenée, 1837

Genus ESCARIA Grote, [1883] 1882

93 2815 E. clauda Grote, [1883] 1882 (Escaria) 9831
ssp. a. clauda Grote, [1883] 1882 (Escaria)
ssp. b. pallens Barnes & Benjamin, 1923 (Escaria)
93 2816 E. homogena McDunnough, 1922 (Escaria) 9832

Genus MINOFALA Smith, 1905

93 2817 M. instans Smith, 1905 (Minofala) 9847

Genus SPARKIA Nye, 1975
ID INFO: Metzler & Forbes (2011a).
CEA Grote, 1883

93 2818 S. immacula (Grote, 1883) (Cea) 10218
immaculata; [various, no date] (Sparkia) missp.

Genus TRICHOCOSMIA Grote, 1883

93 2819 T. inornata Grote, 1883 (Trichocosmia) 10219
drasteroides (Smith, 1903) (Caradrina) *[10220]*

Genus AFOTELLA Barnes & Benjamin, 1925

93 2821 A. cylindrica (Grote, 1880) (Hadena) 9841

Genus HADENELLA Grote, 1883

93 2822 H. pergentilis Grote, 1883 (Hadenella) 10221

Genus ANARTA Ochsenheimer, 1816
ID INFO (partial): Mustelin (2006).
CHARELIA Sodoffsky, 1837
DICESTRA; McDunnough, 1937 missp.
DISCESTRA Hampson, 1905
NOTE: *Discestra* was synonymized with *Anarta* by Fibiger & Hacker (2005).
SALACIS Boie, 1839
TRICHCLEA; Smith, 1903 missp.
TRICHOCLEA Grote, 1883

93 2823 A. nigrolunata Packard, 1867 (Anarta) [NEW]
NOTE: The name *A. melanopa* has been used historically for this species. However, the vast majority of Nearctic populations are a separate species. "True" *A. melanopa* is a Beringian species restricted (in NA) to AK.
ssp. a. nigrolunata Packard, 1867 (Anarta)
melanopa of authors; (not Thunberg, 1791) (Noctua) misappl.
ssp. b. laerta Smith, 1903 (Anarta)
93 2823.1 A. melanopa (Thunberg, 1791) (Noctua) H 10327
NOTE: Previously thought to be strictly Palaearctic, but recently discovered in AK (BCS).
alpicola (Quensel, 1802) (Noctua)
rupestralis (Hübner, [1799]) (Noctua)
rupestris Hübner, 1819 (Anarta)
tristis (Hübner, 1809) (Noctua)
vidua (Hübner, 1808) (Noctua)
wistroemi Lampa, 1885 (Anarta)
93 2824 A. sierrae Barnes & McDunnough, 1916 (Anarta) 10328
laertidia Barnes & McDunnough, 1916 (Anarta)
93 2824.1e A. mimuli Behr, 1885 (Anarta) EXCL.; nom. dub. 10329
NOTE: The type of this species (TL: NV) is lost, probably destroyed in the San Francisco earthquake of 1906, and the description is too vague for it to be associated with any biological species. It was treated as a nomen obscurum by Lafontaine & Schmidt (2010).
93 2825 A. chartaria (Grote, 1873) (Mamestra) 10222
93 2826 A. trifolii (Hufnagel, 1766) (Phalaena) H 10223
ssp. a. trifolii (Hufnagel, 1766) (Phalaena)
canescens (Moore, 1878) (Mamestra)
chenopodii ([Denis & Schiffermüller], 1775) (Noctua)
cinnamomina (Rothschild, 1913) (Scotogramma)
farkasii (Treitschke, 1835) (Orthosia)
fructicosae (Dumont, 1925) (Scotogramma)
glaucovaria (Walker, 1860) (Apamea)
gredosi (Laever, 1977) (Discestra)
infraina (Haworth, 1809) (Noctua)
inquieta (Walker, 1857) (Apamea)
intermissa (Walker, 1857) (Hadena)
major (Speyer, 1875) (Mamestra)
saucia (Esper, 1790) (Phalaena)
taylori (Rothschild, 1921) (Cardepia)
verna (Esper, 1787) (Noctua)
zermattensis (Draudt, 1934) (Scotogramma)
ssp. b. albifusa (Walker, 1857) (Hadena)
93 2827 A. mutata (Dod, 1913) (Mamestra) 10224
93 2828 A. fulgora (Barnes & McDunnough, 1918) (Scotogramma) 10225
93 2830 A. hamata (McDunnough, 1930) (Scotogramma) 10227
93 2831 A. oregonica (Grote, 1881) (Mamestra) 10228
ssp. a. oregonica (Grote, 1881) (Mamestra)
ssp. b. morana (Smith, 1910) (Mamestra)
93 2832.1 A. inconcinna (Smith, [1888]) (Scotogramma) 10252
NOTE: Moved from *Scotogramma* to *Anarta* and renumbered from P-No. 932861 to 932832 by Lafontaine & Schmidt (2011).
castrae (Barnes & McDunnough, 1912) (Scotogramma) *[10226]*
montanica (McDunnough, 1930) (Scotogramma)
ultra (Barnes & Benjamin, 1924) (Scotogramma)
93 2833 A. columbica (McDunnough, 1930) (Scotogramma) [NEW]
93 2834 A. alta (Barnes & Benjamin, 1924) (Scotogramma) 10229
93 2836 A. obesula (Smith, 1904) (Mamestra) 10231
ssp. a. obesula (Smith, 1904) (Mamestra)
subalbida (Barnes & Benjamin, 1924) (Scotogramma) *[10230]*
ssp. b. ortruda (Smith, 1910) (Mamestra)
93 2837 A. farnhami (Grote, 1873) (Mamestra) 10232
93 2838 A. crotchii (Grote, 1880) (Mamestra) [NEW]
chunka (Smith, 1910) (Mamestra) *[10235]*
crotchi; (Franclemont & Todd, 1983) (Discestra) emend. *[10233]*
93 2839 A. fusculenta (Smith, 1891) (Mamestra) [NEW]
93 2840 A. oaklandiae (McDunnough, 1937) (Scotogramma) 10234
93 2841 A. projecta (McDunnough, 1938) (Trudestra) 10236
93 2842 A. edwardsii (Smith, 1888) (Trichoclea) 10255
ssp. a. edwardsii (Smith, 1888) (Trichoclea)
edvardsi; (Hampson, 1905) (Trichoclea) emend.
ssp. b. deserticola (Hill, 1924) (Trichoclea)
93 2843 A. florida (Smith, 1900) (Mamestra) 10257
93 2844 A. antica (Smith, 1891) (Trichoclea) 10258
93 2845 A. decepta (Grote, 1883) (Trichoclea) 10259
postica (Smith, 1891) (Trichoclea) *[10254]*
93 2845.1E A. myrtilli (Linnaeus, 1761) (Phalaena) EXCL. 10333
NOTE: This species is restricted to Europe. The NA record was based on mislabeled specimens in the NHMUK (Lafontaine & Schmidt 2010).

Genus TRUDESTRA McDunnough, 1937

93 2846 T. hadeniformis (Smith, 1894) (Mamestra) 10237

Genus SCOTOGRAMMA Edwards, 1887

93 2847 S. submarina (Grote, 1883) (Anarta) 10238
addenda Barnes & Benjamin, 1924 (Scotogramma) *[10243]*
93 2848 S. fervida Barnes & McDunnough, 1912 (Scotogramma) 10239
ssp. a. fervida Barnes & McDunnough, 1912 (Scotogramma)
ssp. b. proxima Barnes & Benjamin, 1924 (Scotogramma)
ssp. c. campestris McDunnough, 1943 (Scotogramma)
93 2849 S. densa Smith, 1893 (Scotogramma) 10240
megaera Smith, 1899 (Scotogramma) *[10245]*
93 2850 S. stretchii Edwards, 1887 (Scotogramma) [NEW]
stretchi; Franclemont & Todd, 1983 (Scotogramma) emend. *[10241]*
93 2851 S. harnardi Barnes & Benjamin, 1924 (Scotogramma) 10242
93 2853 S. ptilodonta (Grote, 1883) (Trichopolia) 10244
ssp. a. ptilodonta (Grote, 1883) (Trichopolia)
ssp. b. nevada Barnes & McDunnough, 1912 (Scotogramma)
ssp. c. albescens McDunnough, 1943 (Scotogramma)
93 2855 S. hirsuta McDunnough, 1938 (Scotogramma) 10246
93 2856 S. yakima (Smith, 1900) (Mamestra) 10247

yacima; (Hampson, 1905) (Craterestra) emend.

93 2857 S. orida (Smith, 1903) (Mamestra) 10248
93 2858 S. gatei (Smith, 1910) (Mamestra) 10249
93 2859 S. fieldi Barnes & Benjamin, 1927 (Scotogramma) 10250
93 2860 S. defessa (Grote, 1880) (Mamestra) [NEW]
deffessa Franclemont, 1983 (Scotogramma) missp. *[10251]*

Genus TRIDEPIA McDunnough, 1937

93 2862 T. nova (Smith, 1903) (Trichclea) 10253

Genus CORANARTA Beck, 1991
ID INFO: Lafontaine at al. (1987).

93 2863 C. luteola (Grote & Robinson, 1865) (Anarta) [NEW]
cordigera of authors; (not Thunberg, 1792) (Noctua) misappl. *[10332]*
93 2864 C. macrostigma (Lafontaine & Mikkola, 1987) (Anarta) [NEW]

Genus POLIA Ochsenheimer, 1816
ID INFO: McCabe (1980).
APLECTA Guenée, 1838
POLIA Boisduval, 1828

93 2865 P. discalis (Grote, 1877) (Mamestra) 10273
93 2866 P. piniae Buckett & Bauer, 1967 (Polia) 10274
93 2867 P. nimbosa (Guenée, 1852) (Aplecta) 10275
ssp. a. nimbosa (Guenée, 1852) (Aplecta)
ssp. b. mystica (Smith, 1898) (Mamestra)
ssp. c. mysticoides Barnes & Benjamin, 1924 (Polia)
93 2868 P. imbrifera (Guenée, 1852) (Aplecta) 10276
93 2869 P. rogenhoferi (Möschler, 1870) (Mamestra) 10277
carbonifera (Hampson, 1908) (Miselia)
leomegra (Smith, 1908) (Mamestra) *[10278]*
93 2870 P. propodea McCabe, 1980 (Polia) [NEW]
93 2871 P. richardsoni (Curtis, 1834) (Hadena) H 10279
ssp. a. richardsoni (Curtis, 1834) (Hadena)
algida (Lefèbvre, 1836) (Anarta)
dovrensis (Staudinger, 1901) (Anarta)
feildeni (MacLachlan, 1878) (Mamestra)
fumida (Graeser, 1889) (Anarta)
groelandica (Heydemann, 1944) (Aplecta)
septentrionis (Walker, 1857) (Anarta)
ssp. b. lanuginosa (Smith, 1900) (Anarta)
ssp. c. squara (Smith, 1908) (Anarta)
ssp. d. magna (Barnes & Benjamin, 1924) (Anarta) [10331]
ssp. e. tamsi (Benjamin, 1933) (Anarta)
93 2872 P. purpurissata (Grote, 1864) (Eurois) 10280
ssp. a. purpurissata (Grote, 1864) (Eurois)
crydina (Dyar, 1904) (Mamestra)
juncimacula (Smith, 1883) (Hadena)
languida (Smith, 1893) (Mamestra)
ssp. b. apurpura Barnes & McDunnough, 1913 (Polia)
93 2873 P. nugatis (Smith, 1898) (Mamestra) 10281
tufa (Smith, 1905) (Mamestra)

Genus MELANCHRA Hübner, 1820
ID INFO: McCabe (1980).
CERAMICA Guenée, 1852

93 2874 M. adjuncta (Guenée, 1852) (Mamestra) 10292
benjamini (Lemmer, 1937) ([unknown])
declarata (Walker, 1856) (Acronicta)
93 2875 M. picta (Harris, 1841) (Mamestra) 10293
NOTE: Reported by some (e.g., Smith 1994) as introduced, but this is a native species (Lafontaine & Troubridge 1998).
contraria (Walker, 1857) (Mythimna)
exusta (Guenée, 1852) (Ceramica)
93 2876 M. pulverulenta (Smith, 1888) (Mamestra) 10294
93 2877 M. assimilis (Morrison, 1874) (Mamestra) 10295

Genus LACANOBIA Billberg, 1820
ID INFO: McCabe (1980).
DIATARAXIA Hübner, 1821
PEUCEPHILA Hampson, 1909

93 2878 L. nevadae (Grote, 1876) (Mamestra) 10296
canadensis (Smith, 1888) (Mamestra)
93 2879 L. atlantica (Grote, 1874) (Mamestra) 10297
discolor (Speyer, 1875) (Mamestra)
93 2880 L. radix (Walker, [1857]) (Agrotis) 10298
desperata (Smith, 1891) (Mamestra) *[10492]*
dimmocki (Grote, 1875) (Mamestra)
93 2881 L. subjuncta (Grote & Robinson, 1868) (Hadena) 10299
ssp. a. subjuncta (Grote & Robinson, 1868) (Hadena)
ssp. b. eleanora (Barnes & McDunnough, 1918) (Polia)
93 2882 L. grandis (Guenée, 1852) (Hadena) 10300
libera (Walker, 1856) (Xylophasia)

Genus SPIRAMATER McCabe, 1980
ID INFO: McCabe (1980).

93 2883 S. lutra (Guenée, 1852) (Hadena) 10301
lubens (Grote, 1875) (Mamestra)
rufula (Morrison, 1875) (Mamestra)
ssp. a. lutra (Guenée, 1852) (Hadena)
ssp. b. glaucopis (Hampson, 1905) (Polia)

Genus TRICHORDESTRA McCabe, 1980
ID INFO: McCabe (1980).

93 2884 T. rugosa (Morrison, 1875) (Mamestra) 10302
93 2885 T. tacoma (Strecker, 1900) (Mamestra) 10303
93 2886 T. legitima (Grote, 1864) (Apamea) 10304
93 2887 T. dodii (Smith, 1904) (Mamestra) 10305
93 2888 T. beanii (Grote, 1877) (Mamestra) [NEW]
beani; (Franclemont & Todd, 1983) (Lacanobia) emend. *[10306]*
93 2889 T. lilacina (Harvey, 1874) (Mamestra) 10307
illabefacta (Morrison, 1875) (Mamestra)
luski (Barnes & McDunnough, 1913) (Polia)
93 2890 T. liquida (Grote, 1881) (Mamestra) 10308
ssp. a. liquida (Grote, 1881) (Mamestra)
ssp. b. meodana (Smith, 1910) (Mamestra)
93 2891 T. prodeniformis (Smith, 1888) (Mamestra) 10309

Genus PAPESTRA Sukhareva, 1973
ID INFO: McCabe (1980).

93 2892 P. quadrata (Smith, 1891) (Mamestra) 10310
ssp. a. quadrata (Smith, 1891) (Mamestra)
ssp. b. ingravis (Smith, 1895) (Mamestra)
93 2893 P. biren (Goeze, 1781) (Phalaena) H 10311
aperta (Geyer, 1832) (Noctua)
frustrata (McDunnough, 1946) (Polia)
glauca (Kleeman, 1792) (Noctua)
lappo (Duponchel, 1827) (Noctua)
paupercula (Püngeler, 1902) (Mamestra)
poliostigma (Hampson, 1894) (Hadena)
puengeleri (Draudt, 1934) (Polia)
quadripositа (Zetterstedt, 1839) (Hadena)
taunensis (Fuchs, 1899) (Mamestra)
93 2894 P. cristifera (Walker, 1858) (Acronycta) 10312
impolita (Morrison, 1875) (Mamestra)
93 2895 P. brenda (Barnes & McDunnough, 1916) (Polia) 10313
93 2896 P. invalida (Smith, 1891) (Mamestra) 10314

Genus HADA Billberg, 1820

93 2897 H. sutrina (Grote, 1881) (Mamestra) 10324

Genus MAMESTRA Ochsenheimer, 1816
BARATHRA Hübner, 1821
COPIMAMESTRA Grote, 1883

93 2898 M. configurata Walker, 1856 (Mamestra) 10271
occidenta (Grote, 1883) (Copimamestra)
93 2899 M. curialis (Smith, 1888) (Copimamestra) 10272

Genus SIDERIDIS Hübner, 1821

93 2900 S. ruisa (Forbes, 1913) (Trichoclea) 10262
93 2901 S. vindemialis (Guenée, 1852) (Ceramica) 10264
93 2902 S. fuscolutea (Smith, 1892) (Mamestra) 10256
93 2903 S. mojave (Benjamin, 1932) (Trichoclea) 10260
93 2904 S. uscripta (Smith, 1891) (Mamestra) 10261
93 2905 S. artesta (Smith, 1903) (Mamestra) 10263
93 2906 S. rosea (Harvey, 1874) (Mamestra) 10265

93 2907 S. congermana (Morrison, 1874) (Hadena) 10266
93 2908 S. maryx (Guenée, 1852) (Ceramica) 10268
rubefacta (Morrison, 1874) (Ceramica)
vindemialis (Grote, 1875) (Mamestra)

Genus HECATERA Guenée, 1852
ID INFO: Landolt et al. (2010).
AETHRIA Hübner, [1821]
EPIPSAMMIA Staudinger, 1879
NAMANGANA Staudinger, 1888
PSEUDATHETIS Boursin, 1937
SARTHA Staudinger, 1891

93 2909 H. dysodea ([Denis & Schiffermüller], 1775) (Noctua) I [NEW]
NOTE: This introduced species was first found in NA in UT in 1998 (Lafontaine & Schmidt 2010).
ssp. a. dysodea ([Denis & Schiffermüller], 1775) (Noctua)
africana Oberthür, 1918 (Hecatera)
antitypina (Rothschild, 1914) (Polia)
caduca (Herrich-Schäffer, [1850]) (Polia)
chrysozona (Borkhausen, 1792) (Phalaena)
faroulti (Rothschild, 1914) (Polia)
innocens (Staudinger, 1870) (Mamestra)
khala (Rungs, 1972) (Mamestra)
minor (Esper, 1790) (Phalaena)
ornata (Villers, 1789) (Phalaena)
ranunculina (Haworth, 1809) (Noctua)
spinaciae (Vieweg, 1790) (Noctua)
subflava (Warren, 1909) (Polia)

Genus HADENA Schrank, 1802
ID INFO: Troubridge & Crabo (2002).
ANEPIA Hampson, 1918
DIANTHECIA; Taylor, 1855 missp.
DIANTHOECIA Boisduval, 1834
EPIA Hübner, 1821
HARMODIA Sodoffsky, 1837
MISELIA Ochsenheimer, 1816

93 2910 H. variolata (Smith, 1888) (Mamestra) 10326
ssp. a. variolata (Smith, 1888) (Mamestra)
ssp. b. dealbata (Staudinger, 1892) (Mamestra)
93 2911 H. capsularis (Guenée, 1852) (Dianthoecia) 10317
propulsa (Walker, 1857) (Raphia)
93 2912 H. lafontainei Troubridge & Crabo, 2002 (Hadena) [NEW]
93 2913 H. ectypa (Morrison, 1875) (Mamestra) 10316
bella (Grote, 1883) (Mamestra)
93 2914 H. minorata (Smith, 1888) (Mamestra) 10318
93 2915 H. glaciata (Grote, 1882) (Mamestra) 10325
93 2916 H. circumvadis (Smith, 1902) (Mamestra) 10322
93 2917 H. caelestis Troubridge & Crabo, 2002 (Hadena) [NEW]
93 2918 H. gabrieli Troubridge & Crabo, 2002 (Hadena) [NEW]
93 2919 H. ectrapela (Smith, 1898) (Mamestra) 10321
jola (Barnes & Benjamin, 1924) (Epia) [10320]
93 2920 H. amabilis (Barnes & McDunnough, 1918) (Epia) 10319
93 2921 H. plumasata Buckett & Bauer, 1967 (Hadena) 10323
93 2922 H. maccabei Troubridge & Crabo, 2002 (Hadena) [NEW]
93 2923 H. paulula Troubridge & Crabo, 2002 (Hadena) [NEW]
93 2924 H. siskiyou Troubridge & Crabo, 2002 (Hadena) [NEW]

Genus ADMETOVIS Grote, 1873
ID INFO: Crabo & Schmidt (2018).

93 2924.5 A. oxymorus Grote, 1873 (Admetovis) 10269
93 2924.51 A. icarus Crabo & Schmidt, 2018 (Admetovis) [NEW]
93 2924.52 A. similaris Barnes, 1904 (Admetovis) 10270
similis Barnes, in: Dyar, 1903 (Admetovis)

Genus DARGIDA Walker, 1856
EUPSEPHOPACTES Hampson, 1905
EUPSEPHOPAECTES Grote, 1873
FARONTA Smith, 1908
PROTOLEUCANIA McDunnough, 1937
PSEUDOLEUCANIA McDunnough, 1937

93 2925 D. procinctus (Grote, 1873) (Eupsephopaectes) 10428
93 2926 D. grammivora Walker, 1856 (Dargida) [NEW]
graminivora; Hampson, 1905 (Dargida) emend. [10429]
93 2927 D. quadrannulata (Morrison, 1876) (Mamestra) 10430
93 2928 D. diffusa (Walker, 1856) (Leucania) 10431
ssp. a. diffusa (Walker, 1856) (Leucania)
albilinea of authors; (not Hübner, [1821]) (Leucania) misappl.
harveyi (Grote, 1873) (Leucania)
moderata (Walker, 1856) (Leucania)
terrapictalis (Buckett, 1969) (Faronta) [10432]
ssp. b. obscurior (Smith, 1902) (Leucania)
ssp. c. limitata (Smith, 1902) (Leucania)
ssp. d. neptis (Smith, 1902) (Leucania)
93 2930 D. tetera (Smith, 1902) (Leucania) 10433
93 2931 D. rubripennis (Grote & Robinson, 1870) (Leucania) 10434
93 2932 D. aleada (Smith, 1908) (Faronta) 10435

Tribe LEUCANIINI Guenée, 1837

Genus MYTHIMNA Ochsenheimer, 1816
ALETIA Hübner, 1821
HYPHILARE Hübner, 1821
PSEUDALETIA Franclemont, 1951

93 2933 M. oxygala (Grote, 1881) (Heliophila) 10436
ssp. a. oxygala (Grote, 1881) (Heliophila)
minorata (Smith, 1894) (Leucania)
pallens of authors; not Linnaeus, 1758 (Mythimna) misappl.
rubripallens (Smith, 1902) (Leucania)
ssp. b. luteopallens (Smith, 1902) (Leucania)
93 2934 M. yuconensis (Hampson, 1911) (Leucania) [NEW]
yukonensis; (McDunnough, 1938) (Leucania) emend. [10437]
93 2935 M. unipuncta (Haworth, 1809) (Noctua) 10438
antica (Walker, 1856) (Leucania)
extranea (Guenée, 1852) (Leucania)
quechua (Franclemont, 1951) (Pseudaletia)
tseki (Koutsaftikis, 1974) (Leucania)
93 2936 M. sequax (Franclemont, 1951) (Pseudaletia) 10438.1
93 2936.1E M. adultera (Schaus, 1894) (Leucania) EXCL. [NEW]
NOTE: This species (TL: Brazil) was listed by Poole & Gentili (1996) as occurring in NA, but no records are known and it is hereby excluded.
93 2936.2E M. litoralis (Curtis, 1827) (Leucania) EXCL. [NEW]
pertracta (Morrison, 1875) (Heliophila) (excl.)
NOTE: The taxon *pertracta*, described from Philadelphia, PA, is actually a female specimen of the Palaearctic *M. litoralis*, with the abdomen of a male specimen of "a species of the *Apamea* complex" [=Apameini] currently attached to it, according to Franclemont (1951). It was erroneously listed as a valid *Leucania* species by Poole (1989).

Genus LEUCANIA Ochsenheimer, 1816
ID INFO (partial): Adams (2001), Troubridge (2020).
BOROLIA Moore, 1881
DONOCHLORA Sodoffsky, 1837
LEUCADIA Sodoffsky, 1837

93 2937 L. extincta Guenée, 1852 (Leucania) 10439
ssp. a. extincta Guenée, 1852 (Leucania)
ligata (Grote, 1875) (Heliophila)
texana (Morrison, 1875) (Heliophila)
ssp. b. flabilis (Grote, 1881) (Heliophila)
rimosa (Grote, 1883) (Heliophila)
93 2937.1 L. clarescens Möschler, 1890 (Leucania) [NEW]
93 2938 L. linita Guenée, 1852 (Leucania) 10440
punctata (Strand, 1917) ([unknown])
93 2938.1 L. amygdalina (Harvey, 1878) (Heliophila) [NEW]
93 2939 L. farcta (Grote, 1881) (Heliophila) 10441
palliseca Smith, 1902 (Leucania)
roseola Smith, 1894 (Leucania)
93 2941 L. anteroclara Smith, 1902 (Leucania) [NEW]
anteoclara; [various, no date] (Leucania) missp. [10442]
calgariana Smith, 1902 (Leucania)
93 2942 L. februalis (Hill, 1924) (Cirphis) 10443
93 2943 L. phragmitidicola Guenée, 1852 (Leucania) [NEW]
phragmatidicola; [various, no date] (Leucania) missp. [10444]
93 2944 L. linda Franclemont, 1952 (Leucania) 10445
93 2945 L. multilinea Walker, 1856 (Leucania) 10446

932946 L. lapidaria (Grote, 1876) (Heliophila) 10446.1
932947 L. commoides Guenée, 1852 (Leucania) 10447
932948 L. insueta Guenée, 1852 (Leucania) 10449
ssp. a. insueta Guenée, 1852 (Leucania)
adonea (Grote, 1874) (Heliophila)
congener (Hübner, 1803) (Noctua)
nigrofasciata Hampson, 1894 (Leucania)
rhodocomma Püngeler, 1900 (Leucania)
suffusa Tutt, 1888 (Leucania)
turbida (Hübner, 1803) (Noctua)
ssp. b. megadia Smith, 1902 (Leucania)
ssp. c. heterodoxa Smith, 1894 (Leucania)
mimica Strecker, 1899 (Leucania)
932949 L. dia (Grote, 1879) (Heliophila) [NEW]
comma of authors; (not Linnaeus, 1761) (Phalaena) misappl. *[10448]*
NOTE: *Leucania comma* was reported as introduced into NL by Ferguson (1963) but those specimens were recently shown to represent *Leucania dia*, a valid NA species (Schmidt & Anweiler, in: Pohl et al. 2010; Appendix).
932950 L. incognita (Barnes & McDunnough, 1918) (Cirphis) 10450
932951 L. inconspicua Herrich-Schäffer, 1868 (Leucania) STRAY [NEW]
932952 L. oaxacana Schaus, 1898 (Leucania) 10451
complicata Strecker, 1898 (Leucania)
932953 L. imperfecta Smith, 1894 (Leucania) 10452
932953.1 L. oregona Smith, 1902 (Leucania) [NEW]
932953.2 L. chejela (Schaus, 1921) (Cirphis) [NEW]
932954 L. stolata Smith, 1894 (Leucania) 10453
932955 L. subpunctata (Harvey, 1875) (Heliophila) [NEW]
NOTE: Historical NA records previously identified as *L. latiuscula* were corrected by Adams (2001) (but note that "true" *L. latiuscula* has been added to the NA fauna recently, see note under that species).
latiuscula of authors; not Herrich-Schäffer, 1868 (Leucania) misappl. *[10454]*
932955.1 L. rawlinsi Adams, 2001 (Leucania) [NEW]
932956 L. lobrega Adams, 2001 (Leucania) [NEW]
NOTE: Prior to description of this species, it was referred to as *L. opalisans* (Draudt, in: Sietz, 1924) by Dickel (1991) (Adams 2001).
932957 L. scirpicola Guenée, 1852 (Leucania) 10455
calpota Smith, 1908 (Leucania)
juncicola Guenée, 1852 (Leucania)
pendens Smith, 1905 (Leucania)
932958 L. senescens Möschler, 1890 (Leucania) STRAY [NEW]
932959 L. dorsalis Walker, 1856 (Leucania) [NEW]
932960 L. adjuta (Grote, 1874) (Heliophila) 10456
932961 L. infatuans Franclemont, 1972 (Leucania) 10457
932961.1 L. latiuscula Herrich-Schäffer, 1868 (Leucania) [NEW]
NOTE: Historical records of this Cuban species in NA refer to *L. subpunctata*. However, it was confirmed in NA recently, first discovered in the National Key Deer Refuge in the Florida Keys by Jim Troubridge (Schmidt et al. 2018).
jaliscana Schaus, 1898 (Leucania)
orizaba Schaus, 1898 (Leucania)
punctifera Möschler, 1880 (Leucania)
tinila Schaus, 1894 (Leucania)
932961.2 L. elephas Troubridge, 2020 (Leucania) [NEW]
NOTE: Schmidt et al. (2018) assigned P-no. 932961.1, which was already in use.
932962 L. humidicola Guenée, 1852 (Leucania) 10458
solita Walker, 1856 (Leucania) N. SYN.
NOTE: Although not formally raised from synonymy under *L. humidicola*, *solita* was treated as a distinct species by Troubridge (2020). Samples from Venezuela representing nominate South American *humidicola* show 1.8% DNA barcode divergence from Central American and NA *solita* (TL: Honduras), but there are no conclusive differences in genitalic structure between the two groups (Don Lafontaine, pers. comm.), whereas closely related *Leucania* otherwise show obvious genitalic differences. We therefore return *solita* to synonymy under *L. humidicola* (n. syn.) pending further taxonomic study.
932963 L. inermis (Forbes, 1936) (Cirphis) 10459
932964 L. calidior (Forbes, 1936) (Cirphis) [NEW]
callidior; ([various, no date]) (Cirphis) missp. *[10460]*
932965 L. ursula (Forbes, 1936) (Cirphis) 10461
932966 L. pseudargyria Guenée, 1852 (Leucania) 10462
callida (Grote, 1882) (Heliophila)
derufata (Strand, 1917) ([unknown])
932967 L. pilipalpis (Grote, 1877) (Heliophila) 10463
932967.1e L. obusta Guenée, 1852 (Leucania) EXCL.; nom. dub. [NEW]
NOTE: This taxon has been omitted from recent NA lists; TL: NA.

Genus ICHNEUTICA Meyrick, 1877 (excl.)

932967.3E I. mutans (Walker, 1857) (Hadena) EXCL. [NEW]
passa (Morrison, 1875) (Mamestra) (excl.)
NOTE: The synonym *Mamestra passa* was described from "California"; however, Franclemont (1981) determined that the type is a mislabeled specimen of the New Zealand endemic *I. mutans* (treated as "*Graphania mutans*" therein). Placement of the genus and species entry here at the end of the Leucaniini is tentative, following the assertion by Hoare (2019) of a "plausible suggestion of a close relationship with Leucaniini" for *Ichneutica*, as part of the *Physetica* genus group Hoare, 2017.

Tribe ERIOPYGINI Fibiger & Lafontaine, 2005

Genus AGROTISIA Hampson, 1908
HARRISONIA Schaus, 1923

932967.4 A. evelinae Benjamin, 1933 (Agrotisia) 9586

Genus PSEUDANARTA Grote, 1878

932967.51 P. flavidens (Grote, 1879) (Hadena) 9601
932967.52 P. actura Smith, 1908 (Pseudanarta) 9602
932967.53 P. basivirida (Barnes & McDunnough, 1911) (Polia) 9603
932967.54 P. caeca Dod, 1913 (Pseudanarta) 9604
932967.55 P. crocea (Edwards, 1875) (Anarta) 9605
932967.56 P. flava (Grote, 1874) (Hadena) 9606
dupla Smith, 1908 (Pseudanarta)
932967.57 P. singula (Grote, 1880) (Hadena) 9607
932967.58 P. pulverulenta (Smith, 1891) (Perigea) 9608
932967.59 P. exasperata Franclemont, 1941 (Pseudanarta) 9609
932967.6 P. perplexa Franclemont, 1941 (Pseudanarta) 9610
932967.61 P. damnata Franclemont, 1941 (Pseudanarta) 9611
932967.62 P. vexata Franclemont, 1941 (Pseudanarta) 9612
932967.63 P. daemonalis Franclemont, 1941 (Pseudanarta) 9613

Genus HOMOANARTA Barnes & Benjamin, 1923

932967.71 H. falcata (Neumoegen, 1884) (Pseudanarta) 9614
932967.72 H. peralta (Barnes, 1907) (Papaipema) 9615
peralto; Barnes & McDunnough, 1917 (Homoanarta) missp.
932967.73 H. carneola (Smith, 1891) (Telesilla) 9616

Genus PSEUDANTHOECIA Smith, 1883

932967.8 P. tumida (Grote, 1880) (Lygranthoecia) 9617

Genus LASIONYCTA Aurivillius, 1892
ID INFO: Crabo & Lafontaine (2009).
ANARTOMIMA Boursin, 1952
LASCIONYCTA; Hill, 1927 missp.
LASIESTRA Hampson, 1905
PSEUDANARTA Kozhantschikov, 1947

Lasionycta skraelingia group Crabo & Lafontaine, 2009

932968 L. skraelingia (Herrich-Schäffer, 1852) (Phlogophora) H [NEW]
scraelingia; Hampson, 1905 (Lasionycta) emend.
932969 L. taigata Lafontaine, 1988 (Lasionycta) [NEW]

Lasionycta secedens group Crabo & Lafontaine, 2009

932970 L. secedens (Walker, [1858]) (Plusia) H 10315
ssp. a. secedens (Walker, [1858]) (Plusia)
ssp. b. bohemani (Staudinger, 1861) (Anarta)

Lasionycta phaea group Crabo & Lafontaine, 2009

932971 L. phaea (Hampson, 1905) (Anarta) [NEW]

Lasionycta subdita group Crabo & Lafontaine, 2009

932972 L. subdita (Möschler, 1860) (Dianthoecia) 10356
membrosa (Morrison, 1875) (Anarta) *[10357]*
932973 L. conjugata (Smith, 1899) (Scotogramma) 10362
932974 L. fergusoni Crabo & Lafontaine, 2009 (Lasionycta) [NEW]

Lasionycta mutilata group Crabo & Lafontaine, 2009

93 2975 L. mutilata (Smith, 1898) (Mamestra) 10360
rainieri; Franclemont & Todd, 1983 (Lasionycta) emend. *[10361]*
rainierii (Smith, 1900) (Mamestra)
93 2976 L. haida Crabo & Lafontaine, 2009 (Lasionycta) [NEW]

Lasionycta luteola group Crabo & Lafontaine, 2009

93 2977 L. luteola (Smith, 1893) (Scotogramma) 10342

Lasionycta leucocycla group Crabo & Lafontaine, 2009

93 2978 L. leucocycla (Staudinger, 1857) (Anarta) H 10336
ssp. a. leucocycla (Staudinger, 1857) (Anarta)
ssp. b. moeschleri (Staudinger, 1901) (Anarta)
ssp. c. hampa (Smith, 1908) (Anarta)
ssp. d. albertensis (McDunnough, 1925) (Anarta)
93 2979 L. flanda (Smith, 1908) (Anarta) [NEW]
93 2980 L. coracina Crabo & Lafontaine, 2009 (Lasionycta) [NEW]
93 2981 L. anthracina Crabo & Lafontaine, 2009 (Lasionycta) [NEW]
93 2982 L. poca (Barnes & Benjamin, 1923) (Anarta) 10348
93 2983 L. coloradensis (Richards, 1943) (Anarta) 10337
93 2984 L. illima Crabo & Lafontaine, 2009 (Lasionycta) [NEW]
93 2985 L. frigida Crabo & Lafontaine, 2009 (Lasionycta) [NEW]
93 2986 L. sasquatch Crabo & Lafontaine, 2009 (Lasionycta) [NEW]
93 2987 L. benjamini Hill, 1927 (Lascionycta [sic]) 10359
ssp. a. benjamini Hill, 1927 (Lascionycta [sic])
ssp. b. medaminosa Crabo & Lafontaine, 2009 (Lasionycta)

Lasionycta perplexa group Crabo & Lafontaine, 2009

93 2988 L. perplexa (Smith, 1888) (Scotogramma) 10352
alberta Barnes & Benjamin, 1923 (Lasionycta) *[10353]*
marloffi (Dyar, 1922) (Anytus) *[10354]*
93 2989 L. perplexella Crabo & Lafontaine, 2009 (Lasionycta) [NEW]
93 2990 L. subalpina Crabo & Lafontaine, 2009 (Lasionycta) [NEW]

Lasionycta subfuscula group Crabo & Lafontaine, 2009

93 2991 L. subfuscula (Grote, 1874) (Anarta) 10358
ssp. a. subfuscula (Grote, 1874) (Anarta)
sedilis (Smith, 1899) (Scotogramma) *[10363]*
ssp. b. livida Crabo & Lafontaine, 2009 (Lasionycta)

Lasionycta staudingeri group Crabo & Lafontaine, 2009

93 2992 L. staudingeri (Aurivillius, 1891) (Anarta) extralim. H 10334
ssp. a. preblei (Benjamin, 1933) (Anarta) [10349]
93 2993 L. dolosa (Barnes & Benjamin, 1923) (Anarta) 10350
93 2994 L. subfumosa (Gibson, 1920) (Anarta) [NEW]
93 2995 L. quadrilunata (Grote, 1874) (Anarta) 10335
ssp. a. quadrilunata (Grote, 1874) (Anarta)
ssp. b. yukona Lafontaine, 1986 (Lasionycta)
93 2996 L. lagganata (Barnes & Benjamin, 1924) (Anarta) 10338
93 2997 L. carolynae Crabo, 2009 (Lasionycta) [NEW]

Lasionycta phoca group Crabo & Lafontaine, 2009

93 2998 L. phoca (Möschler, 1864) (Dianthoecia) 10341
albinuda (Smith, 1903) (Scotogramma) *[10355]*
93 2999 L. uniformis (Smith, 1893) (Scotogramma) 10346
ssp. a. uniformis (Smith, 1893) (Scotogramma)
ssp. b. multicolor Crabo & Lafontaine, 2009 (Lasionycta)
ssp. c. fusca Crabo & Lafontaine, 2009 (Lasionycta)
ssp. d. shasta Crabo & Lafontaine, 2009 (Lasionycta)
ssp. e. handfieldi Crabo & Lafontaine, 2009 (Lasionycta)
93 3000 L. brunnea Crabo & Lafontaine, 2009 (Lasionycta) [NEW]
93 3001 L. caesia Crabo & Lafontaine, 2009 (Lasionycta) [NEW]
93 3002 L. gelida Crabo & Lafontaine, 2009 (Lasionycta) [NEW]
93 3003 L. discolor (Smith, 1899) (Scotogramma) 10340
klotsi (Richards, 1943) (Lasiestra) *[10343]*
93 3004 L. mono Crabo & Lafontaine, 2009 (Lasionycta) [NEW]

Lasionycta promulsa group Crabo & Lafontaine, 2009

93 3005 L. promulsa (Morrison, 1875) (Mamestra) 10344
infuscata (Smith, 1899) (Scotogramma) *[10347]*
93 3006 L. macleani (McDunnough, 1927) (Anarta) 10345
93 3007 L. pulverea Crabo & Lafontaine, 2009 (Lasionycta) [NEW]
93 3008 L. silacea Crabo & Lafontaine, 2009 (Lasionycta) [NEW]
93 3009 L. sierra Crabo & Lafontaine, 2009 (Lasionycta) [NEW]

Lasionycta impingens group Crabo & Lafontaine, 2009

93 3010 L. impingens (Walker, 1857) (Anarta) 10339
ssp. a. impingens (Walker, 1857) (Anarta)
nivaria (Grote, 1876) (Anarta)
perpura (Morrison, 1875) (Orthosia)
ssp. b. curta (Morrison, 1875) (Mamestra)

Genus PSAMMOPOLIA Crabo & Lafontaine, 2009
ID INFO: Crabo & Lafontaine (2009).

93 3011 P. arietis (Grote, 1879) (Mamestra) 10364
etacta (Smith, 1900) (Anarta) *[10330]*
93 3012 P. wyatti (Barnes & Benjamin, 1926) (Polia) 10365
93 3013 P. insolens (Grote, 1874) (Dianthoecia) 10366
earina (Morrison, 1875) (Taeniocampa)
93 3014 P. sala (Troubridge & Mustelin, 2006) (Lascionycta) [NEW]
93 3015 P. ochracea (Riley, 1892) (Xylomiges) 10367

Genus LACINIPOLIA McDunnough, 1937
ID INFO (partial): Selman & Leuschner (2001), Schmidt (2015).

93 3016 L. meditata (Grote, 1873) (Dianthoecia) 10368
ssp. a. meditata (Grote, 1873) (Dianthoecia)
brachiolum (Harvey, 1876) (Mamestra) *[10386]*
determinata (Smith, 1891) (Mamestra) *[10369]*
rubrifusa (Hampson, 1905) (Polia) *[10388]*
ssp. b. columbia (Smith, 1888) (Taeniocampa)
93 3017 L. lustralis (Grote, 1875) (Dianthoecia) 10370
ssp. a. lustralis (Grote, 1875) (Dianthoecia)
cervina (Smith, 1898) (Mamestra)
selama (Strecker, 1898) (Mamestra) *[10387]*
ssp. b. suffusa (Smith, 1888) (Taeniocampa)
93 3018 L. cuneata (Grote, 1873) (Mamestra) 10371
ssp. a. cuneata (Grote, 1873) (Mamestra)
ssp. b. gertana (Smith, 1913) (Mamestra)
basirufa (Strand, 1917) ([unknown])
rubicunda (Strand, 1917) ([unknown])
93 3019 L. anguina (Grote, 1881) (Mamestra) 10372
ssp. a. anguina (Grote, 1881) (Mamestra)
ssp. b. larissa (Smith, 1895) (Mamestra)
93 3020 L. incurva (Smith, 1888) (Mamestra) 10373
93 3021 L. longiclava (Smith, 1891) (Mamestra) 10374
93 3022 L. gnata (Grote, 1882) (Mamestra) 10375
93 3023 L. agnata (Smith, 1905) (Mamestra) 10376
93 3024 L. prognata McDunnough, 1940 (Lacinipolia) 10377
93 3025 L. delongi Selman & Leuschner, 2001 (Lacinipolia) [NEW]
93 3026 L. luteimacula (Barnes & Benjamin, 1925) (Polia) 10378
93 3027 L. umbrosa (Smith, 1888) (Scotogramma) 10379
intentata (Smith, 1898) (Mamestra)
93 3028 L. vittula (Grote, 1883) (Mamestra) 10380
93 3029 L. naevia (Smith, 1898) (Mamestra) 10381
griseata (Smith, 1900) (Mamestra)
93 3030 L. stenotis (Hampson, 1905) (Polia) 10382
93 3031 L. palilis (Harvey, 1875) (Dianthoecia) 10383
93 3032 L. uliginosa (Smith, 1905) (Mamestra) 10384
bicolor (Barnes & McDunnough, 1913) (Polia)
93 3035 L. roseosuffusa (Smith, 1900) (Mamestra) 10389
93 3036 L. falsa (Grote, 1880) (Perigea) 10390
micta (Hampson, 1918) (Miselia)
93 3038 L. leucogramma (Grote, 1873) (Mamestra) 10392
canities (Hampson, 1905) (Polia) *[10385]*
francisca (Smith, 1910) (Scotogramma) *[10391]*
93 3039 L. teligera (Morrison, 1875) (Mamestra) 10393
93 3040 L. vicina (Grote, 1874) (Mamestra) 10394
imbuna (Smith, 1905) (Mamestra)
93 3042 L. pensilis (Grote, 1874) (Dianthoecia) 10395

9333042.1 L. acutipennis (Grote, 1880) (Mamestra) [NEW]
ascula (Smith, 1905) (Mamestra)
doira (Strecker, 1898) (Mamestra)
indistincta (Strand, 1917) ([unknown])
subalba Mustelin, 2000 (Lacinipolia)
9333042.2 L. sareta (Smith, 1906) (Mamestra) [NEW]
9333042.3 L. dimocki Schmidt, 2015 (Lacinipolia) [NEW]
9333043 L. basiplaga (Smith, 1905) (Mamestra) 10396
9333044 L. renigera (Stephens, 1829) (Celaena) 10397
herbimacula (Guenée, 1852) (Celaena)
infecta (Walker, 1857) (Celaena)
9333045 L. stricta (Walker, 1865) (Hadena) 10398
ssp. a. stricta (Walker, 1865) (Hadena)
ferrea (Grote, 1881) (Mamestra)
ssp. b. cinnabarina (Grote, 1874) (Mamestra)
ssp. c. tenisca (Smith, 1910) (Mamestra)
ssp. d. papka (Barnes & Benjamin, 1929) (Polia)
kappa (Barnes & Benjamin, 1925) (Polia)
9333046 L. circumcincta (Smith, 1891) (Mamestra) 10399
9333047 L. spiculosa (Grote, 1883) (Mamestra) 10400
9333048 L. lepidula (Smith, 1888) (Mamestra) 10401
perta of authors; (not Druce, 1889) (Celaena) misappl. *[10402]*
NOTE: Excluded from the NA list by Lafontaine & Schmidt (2015). The records in question presumably refer to *L. lepidula*, and *L. perta* may be a synonym of *L. lepidula*.
9333050 L. erecta (Walker, [1857]) (Celaena) 10403
constipata (Walker, 1857) (Perigea)
innexa (Grote, 1874) (Perigrapha)
9333051 L. triplehorni Selman & Leuschner, 2001 (Lacinipolia) [NEW]
perfragilis of authors; (not Dyar, 1923) (Eriopyga) misappl. *[10404]*
9333052 L. lorea (Guenée, 1852) (Hydroecia) 10405
dodgei (Morrison, 1875) (Mamestra)
ligata (Walker, 1860) (Hydraecia)
9333053 L. olivacea (Morrison, 1875) (Mamestra) 10406
ssp. a. olivacea (Morrison, 1874) (Mamestra)
obscurior (Smith, 1888) (Mamestra)
repentina (Morrison, 1875) (Mamestra) N. SYN.
NOTE: This taxon was described from Hoboken, NJ. The type has been lost, and the name was inadvertently omitted from recent NA checklists, including Franclemont & Todd (in Hodges et al. 1983), Lafontaine & Schmidt (2010), and Pohl et al. (2016). Based on the description, it is most likely a synonym of *L. olivacea*, and it is hereby placed there (n. syn.). That conclusion can be reassessed if the type ever materializes.
ssp. b. lucina (Smith, 1901) (Mamestra)
ssp. c. megarena (Smith, 1901) (Mamestra)
ssp. d. altua (Smith, 1901) (Mamestra)
ssp. e. petita (Smith, 1901) (Mamestra)
ssp. f. vaumedia (Smith, 1888) (Mamestra)
9333054 L. bucketti Selman & Leuschner, 2001 (Lacinipolia) [NEW]
9333055 L. baueri Selman & Leuschner, 2001 (Lacinipolia) [NEW]
9333056 L. sharonae Selman & Leuschner, 2001 (Lacinipolia) [NEW]
9333057 L. fordi Selman & Leuschner, 2001 (Lacinipolia) [NEW]
9333058 L. franclemonti Selman & Leuschner, 2001 (Lacinipolia) [NEW]
9333059 L. aileenae Selman & Leuschner, 2001 (Lacinipolia) [NEW]
9333060 L. rodora (Dyar, 1911) (Polia) [NEW]
9333061 L. davena (Smith, 1901) (Mamestra) 10407
9333062 L. comis (Grote, 1876) (Mamestra) 10408
lunolacta (Smith, 1903) (Mamestra) *[10410]*
obnigra (Smith, 1901) (Mamestra)
9333063 L. rectilinea (Smith, 1888) (Mamestra) 10409
9333065 L. laudabilis (Guenée, 1852) (Hecatera) 10411
indicans (Walker, 1857) (Hapalia)
lichenea (Draudt, 1924) (Polia)
mediosuffusa (Strand, 1917) ([unknown])
rufoirrorata (Strand, 1917) ([unknown])
suda (Draudt, 1924) (Polia)
9333066 L. marinitincta (Harvey, 1875) (Mamestra) 10412
ssp. a. marinitincta (Harvey, 1875) (Mamestra)
ssp. b. appendicula McDunnough, 1937 (Lacinipolia)
9333067 L. explicata McDunnough, 1937 (Lacinipolia) 10413
9333068 L. implicata McDunnough, 1937 (Lacinipolia) 10414
9333069 L. strigicollis (Wallengren, 1860) (Hecatera) 10415
alboguttata (Grote, 1876) (Mamestra)
dilatata (Smith, 1900) (Mamestra)
illaudabilis (Grote, 1875) (Mamestra) *[10416]*
restora (Smith, 1910) (Mamestra)
9333070 L. tricornuta McDunnough, 1937 (Lacinipolia) 10417
9333071 L. runica (Hampson, 1918) (Miselia) 10418
9333072 L. viridifera McDunnough, 1937 (Lacinipolia) 10419
9333073 L. consimilis McDunnough, 1937 (Lacinipolia) 10420
9333074 L. buscki (Barnes & Benjamin, 1927) (Polia) 10421
9333075 L. quadrilineata (Grote, 1873) (Mamestra) 10422
cinereoviridis (Strand, 1917) ([unknown])
9333076 L. martini Selman & Leuschner, 2001 (Lacinipolia) [NEW]
9333077 L. patalis (Grote, 1873) (Xylomiges) 10423
ssp. a. patalis (Grote, 1873) (Xylomiges)
ssp. b. fletcheri (Grote, 1888) (Xylomiges)
9333078 L. parvula (Herrich-Schäffer, 1868) (Mamestra) 10424
9333078.1 L. scribillata (Draudt, 1924) (Polia) UNAVAIL. [NEW]
NOTE: The first NA (TX) record of this species was reported in the 2004 Season Summary of the Lepidopterists' Society (2005), based on a specimen collected in 1988 by Ed Knudson. It was not listed by Lafontaine & Schmidt (2010), because *scribillata* was described as an aberration and is therefore unavailable. This taxon does not have a valid name, but appears to be a valid biological species.

Genus "LACINIPOLIA" McDunnough, 1937 PROV. PL.
NOTE: Provisionally placed here by Lafontaine & Schmidt (2010).

9333079 L. mimula (Grote, 1883) (Mamestra) mispl. 10351

Genus TRICHOCERAPODA Benjamin, 1932
ID INFO (partial): Mustelin (2006).

9333080 T. comstocki Benjamin, 1932 (Trichocerapoda) 10425
9333081 T. harbisoni Mustelin, 2006 (Trichocerapoda) [NEW]
9333082 T. strigata (Smith, 1891) (Calophasia) 10426
9333083 T. oblita (Grote, 1877) (Oncocnemis) 10427
arrosta (Dyar, 1921) (Cerapoda)
deserta (Grinnell, 1912) (Autographa)
insertans (Smith, 1890) (Agrotis)
9333084 T. oceanis Robertson & Mustelin, 2006 (Trichocerapoda) [NEW]

Genus ANHIMELLA McDunnough, 1943

9333085 A. perbrunnea (Grote, 1879) (Graphiphora) 10529
9333086 A. contrahens (Walker, 1860) (Celaena) 10530
conar (Strecker, 1898) (Agrotis)
contrahens (Grote, 1878) (Graphiphora)
infidelis (Dyar, 1904) (Himella)
quadristigma (Smith, 1900) (Himella)
thecata (Morrison, 1875) (Mamestra)
9333087 A. pacifica McDunnough, 1943 (Anhimella) 10531

Genus HOMORTHODES McDunnough, 1943

9333088 H. furfurata (Grote, 1875) (Himella) 10532
ssp. a. furfurata (Grote, 1875) (Himella)
peredia (Grote, 1883) (Taeniocampa)
ssp. b. uniformis (Smith, 1888) (Taeniocampa)
9333089 H. lindseyi (Benjamin, 1922) (Eriopyga) [NEW]
9333090 H. communis (Dyar, 1904) (Graphiphora) 10533
affurata (Hampson, 1905) (Eriopyga)
9333091 H. fractura (Smith, 1906) (Taeniocampa) 10534
ssp. a. fractura (Smith, 1906) (Taeniocampa)
ssp. b. mecrona (Smith, 1908) (Taeniocampa)
9333092 H. discreta (Barnes & McDunnough, 1916) (Eriopyga) 10535
9333093 H. dubia (Barnes & McDunnough, 1912) (Eriopyga) 10536
9333093.1 H. euxoiformis (Barnes & McDunnough, 1913) (Eriopyga) 10598
9333094 H. mania (Strecker, 1899) (Mamestra) 10537
9333095 H. rubritincta McDunnough, 1943 (Homorthodes) 10538
9333096 H. hanhami (Barnes & McDunnough, 1911) (Polia) 10539
ssp. a. hanhami (Barnes & McDunnough, 1911) (Polia)
ssp. b. semicarnea (Barnes & McDunnough, 1918) (Polia)
9333097 H. carneola McDunnough, 1943 (Homorthodes) 10540
9333098 H. reliqua (Smith, 1899) (Taeniocampa) 10541
gracea (Sperry, 1938) (Polia)
9333099 H. rectiflava (Smith, 1908) (Himella) 10542

93 3100 H. flosca (Smith, 1906) (Himella) 10543
93 3101 H. perturba McDunnough, 1943 (Homorthodes) 10544
93 3102 H. gigantoides (Barnes & McDunnough, 1912) (Eriopyga) 10545

Genus TRICHOPOLIA Grote, 1883
ID INFO: Lafontaine et al. (2014).

NOTE: *Trichopolia dentatella*, the type species of *Trichopolia*, is very similar in antennal and genitalic morphology and wing phenotype to *Protorthodes antennata* (Jan Metlevski, pers. comm.), and DNA barcode variation confirms a close relationship between these two taxa and the remainder of *Protorthodes*, including the type species *Protorthodes curtica*. Similarly, *Trichopolia suspicionis* is most closely related to *Protorthodes alfkeni*. When McDunnough (1943) described *Protorthodes*, he made no mention of *Trichopolia*, apparently an oversight on his part. The type species of the two genera are here treated as congeners, rendering *Protorthodes* a junior subjective synonym of *Trichopolia* (n. syn.) and resulting in the following new combinations: *Trichopolia curtica* (n. comb.), *T. eureka* (n. comb.), *T. incincta* (n. comb.), *T. argentoppida* (n. comb.), *T. mulina* (n. comb.), *T. oviduca* (n. comb.), *T. orobia* (n. comb.), *T. melanopis* (n. comb.), *T. texicana* (n. comb.), *T. perforata* (n. comb.), *T. rufula* (n. comb.), *T. ustulata* (n. comb.), *T. alfkenii* (n. comb.), *T. antennata* (n. comb.).

EUPOLIA Smith, 1894
PROTORTHODES McDunnough, 1943 N. SYN.

93 3102.5 T. dentatella Grote, 1883 (Trichopolia) 10618
licentiosa (Smith, 1894) (Eupolia)
obtusa (Smith, 1888) (Taeniocampa)
93 3102.6 T. suspicionis Barnes & Benjamin, 1925 (Trichopolia) 10619
93 3103 T. curtica (Smith, 1890) (Taeniocampa) N. COMB. 10546
bostura (Smith, 1908) (Taeniocampa)
93 3104 T. eureka (Barnes & Benjamin, 1927) (Eriopyga) N. COMB. 10549
93 3105 T. incincta (Morrison, 1875) (Mamestra) N. COMB. 10552
acalus; (Hampson, 1905) (Eriopyga) emend.
akalus (Strecker, 1898) (Orthodes) *[10548]*
coloradensis (McDunnough, 1938) (Orthodes)
daviesi (Barnes & Benjamin, 1927) (Eriopyga) *[10550]*
indra (Smith, 1906) (Taeniocampa) *[10551]*
saturnus (Strecker, 1900) (Agrotis) *[10553]*
smithii (Dyar, 1904) (Graphiphora) *[10554]*
utahensis (Smith, 1888) (Taeniocampa) *[10547]*
93 3107 T. argentoppida (McDunnough, 1943) (Protorthodes) N. COMB. 10555
93 3112 T. mulina (Schaus, 1894) (Taeniocampa) N. COMB. 10562
pseudochroma (Dyar, 1913) (Hyssia)
93 3113 T. oviduca (Guenée, 1852) (Taeniocampa) N. COMB. 10563
capsella (Grote, 1874) (Taeniocampa)
lindrothi (Krogerus, 1954) (Protorthodes) *[10564]*
93 3114 T. orobia (Harvey, 1876) (Mamestra) N. COMB. 10565
93 3115 T. melanopis (Hampson, 1905) (Eriopyga) N. COMB. 10566
93 3115.1 T. texicana (Lafontaine, 2014) (Protorthodes) N. COMB. [NEW]
93 3115.2 T. perforata (Grote, 1883) (Taeniocampa) N. COMB. 10556
constans (Dyar, 1918) (Eriopyga)
93 3115.3 T. rufula (Grote, 1874) (Dianthoecia) N. COMB. 10557
93 3115.4 T. ustulata (Lafontaine, Walsh & Ferris, 2014) (Protorthodes) N. COMB. [NEW]
93 3115.5 T. alfkenii (Grote, 1895) (Perigea) N. COMB. [NEW]
alfceni; (Hampson, 1909) (Namangana) emend.
alfkeni; (Franclemont & Todd, 1983) (Protorthodes) emend. *[10559]*
latens (Smith, 1908) (Perigea)
occluna (Smith, 1909) (Taeniocampa)
perplexa (Grote, 1895) (Perigea)
93 3115.6 T. antennata (Barnes & McDunnough, 1912) (Eriopyga) N. COMB. 10558

Genus RHABDORTHODES Crabo, 2018
ID INFO: Crabo (2018).

93 3115.7 R. pattersoni Crabo, 2018 (Rhabdorthodes) [NEW]
NOTE: This species is named after Robert (Bob) Patterson in recognition of his work with the Moth Photographers Group website. It was numbered as P-No. 933115.1 by Schmidt et al. (2018), but that number was already in use.

Genus NUDORTHODES Lafontaine, Walsh & Ferris, 2014
ID INFO: Lafontaine et al. (2014).

93 3116 N. texana (Smith, 1900) (Perigea) 10560
consors (Smith, 1900) (Perigea)
93 3117 N. variabilis (Barnes & McDunnough, 1912) (Namangana) 10561
93 3117.1 N. molino Walsh & Ferris, 2014 (Nudorthodes) [NEW]

Genus ULOLONCHE Smith, 1888

93 3118 U. culea (Guenée, 1852) (Mesogona) 10567
modifica (Morrison, 1875) (Taeniocampa)
93 3119 U. consopita (Grote, 1881) (Graphiphora) 10568
93 3120 U. modesta (Morrison, 1875) (Dianthoecia) 10569
93 3121 U. fasciata Smith, [1888] (Ulolonche) 10570
marloffi (Barnes & Benjamin, 1924) (Hyssia) *[10571]*
93 3123 U. dilecta (Edwards, 1885) (Perigea) 10572
93 3124 U. disticha (Morrison, 1875) (Caradrina) 10573
93 3125 U. orbiculata (Smith, 1891) (Mamestra) 10574
93 3126 U. niveiguttata (Grote, 1873) (Mamestra) 10575

Genus HYPEREPIA Barnes & Lindsey, 1922

93 3127 H. jugifera (Dyar, 1920) (Hyssia) 10576
pi Barnes & Lindsey, 1922 (Hyperepia) *[10577]*

Genus PSEUDORTHODES Morrison, 1874

93 3128 P. vecors (Guenée, 1852) (Orthodes) 10578
ssp. a. vecors (Guenée, 1852) (Orthodes)
calceolaris (Strecker, 1900) (Orthodes) *[10579]*
enervis (Guenée, 1852) (Orthodes)
imora (Strecker, 1898) (Orthodes) *[10580]*
nitens (Grote, 1883) (Orthodes)
prodeuns (Walker, 1857) (Cerastis)
purpureobrunnea (Strand, 1917) (Eriopyga)
togata (Walker, 1865) (Apamea)
velata (Walker, 1860) (Celaena)
ssp. b. griseocincta (Harvey, 1874) (Orthodes)
93 3131 P. keela (Smith, 1908) (Orthodes) 10581
93 3132 P. irrorata (Smith, 1888) (Orthodes) 10582
93 3133 P. puerilis (Grote, 1874) (Mamestra) 10583
93 3134 P. virgula (Grote, 1883) (Taeniocampa) 10584
93 3135 P. iole (Schaus, 1894) (Orthodes) [NEW]

Genus ORTHODES Guenée, 1852
ORTHODEA; Smith, 1906 missp.

93 3136 O. majuscula Herrich-Schäffer, 1868 (Orthodes) [NEW]
crenulata (Butler, 1890) (Dyschorista) *[10585]*
93 3137 O. furtiva McDunnough, 1943 (Orthodes) 10586
93 3138 O. cynica Guenée, 1852 (Orthodes) 10587
candens Guenée, 1852 (Orthodes)
nimia Guenée, 1852 (Orthodes)
tecta (Walker, 1865) (Orthosia)
93 3139 O. adiastola Franclemont, 1976 (Orthodes) 10588

Genus "ORTHODES" Guenée, 1852 PROV. PL.
NOTE: The species placed here were associated with *Orthodes* by Poole (1989) but they do not belong in the genus (Lafontaine & Schmidt 2010). However, they are retained here pending a better placement.

93 3140 O. bolteri (Smith, 1900) (Mamestra) mispl. 10589
ssp. a. bolteri (Smith, 1900) (Mamestra) mispl.
ssp. b. gigas (Smith, 1906) (Orthodea) mispl.
93 3141 O. goodelli (Grote, 1875) (Mamestra) mispl. 10289
ssp. a. goodelli (Grote, 1875) (Mamestra) mispl.
ssp. b. acutermina (Smith, 1904) (Mamestra) mispl.
93 3142 O. obscura (Smith, 1888) (Mamestra) mispl. 10290
93 3143 O. noverca (Grote, 1878) (Mamestra) mispl. 10282
delecta (Barnes & McDunnough, 1916) (Polia) *[10284]*
vauorbicularis (Smith, 1902) (Mamestra) *[10283]*
93 3146 O. detracta (Walker, 1857) (Hadena) mispl. 10288
ssp. a. detracta (Walker, 1857) (Hadena) mispl.
claviplena (Grote, 1873) (Plusia)
ssp. b. neoterica (Smith, 1898) (Mamestra) mispl.

Genus SYNORTHODES Franclemont, 1976
ID INFO: Franclemont (1976).

9303147 S. auriginea Franclemont, 1976 (Synorthodes) 10590
9303148 S. typhedana Franclemont, 1976 (Synorthodes) 10591

Genus HEXORTHODES McDunnough, 1943

9303149 H. serrata (Smith, 1900) (Trichopolia) 10592
dubiosa (Barnes & McDunnough, 1913) (Eriopyga)
9303150 H. inconspicua (Grote, 1883) (Tricholita) 10593
pectinicornis (Smith, 1906) (Mamestra)
9303151 H. jocosa (Barnes & McDunnough, 1916) (Eriopyga) 10594

Genus "HEXORTHODES" McDunnough, 1943 PROV. PL.
ID INFO (partial): Blanchard & Knudson (1985f).
NOTE: These species do not belong in *Hexorthodes*, but they are retained here pending a better placement (Lafontaine & Schmidt 2010).

9303152 H. agrotiformis (Grote, 1881) (Graphiphora) mispl. 10596
aleuca (Draudt, 1924) (Eriopyga)
diplopis (Dyar, 1914) (Eriopyga)
planalis (Grote, 1883) (Agrotis) *[10595]*
9303155 H. senatoria (Smith, 1900) (Mamestra) mispl. 10602
9303156 H. catalina (Barnes & McDunnough, 1912) (Eriopyga) mispl. 10603
9303156.1 H. accurata (Edwards, 1882) (Plusia) mispl. 10601
9303157 H. citeria Blanchard & Knudson, 1985 (Hexorthodes) mispl. [NEW]
9303158 H. emendata Blanchard & Knudson, 1985 (Hexorthodes) mispl. [NEW]
9303159 H. tuana (Smith, 1906) (Mamestra) mispl. 10285
9303160 H. nipana (Smith, 1910) (Mamestra) mispl. 10286
montara (Smith, 1910) (Mamestra) *[10287]*

Genus "HYSSIA" Guenée, 1852 PROV. PL.

9303161 H. degenerans Dyar, 1914 (Hyssia) mispl. [NEW]
NOTE: This species was reported from TX by Lafontaine & Schmidt (2010). They state that it was reported from TX by Blanchard (1973a) but it was not mentioned in that paper. It does not belong in *Hyssia*, but was provisionally placed there by Lafontaine & Schmidt (2010).

Genus "ERIOPYGA" Guenée, 1852 PROV. PL.
NOTE: The species *E. crista* and the undescribed species near *crista* were provisionally placed in *Eriopyga* by Lafontaine & Schmidt (2010).

9303162 E. crista of authors; (not Walker, 1856) (Mamestra) MISAPPL.; mispl. [NEW]
NOTE: This undescribed species has been misidentified as *E. crista*, an extralimital species which has been reported from NA in error, see note under the "true" "*Eriopyga" crista*.
9303162.1E E. crista (Walker, 1856) (Mamestra) EXCL.; mispl. 10605
NOTE: *Eriopyga crista* has been listed from NA based on the synonym *dissimilis*, which was described based on a mislabeled specimen from "AZ". "True" "*Eriopyga*" *crista* is restricted to Central America and southern Mexico. However, other records from AZ refer to an undescribed species of "*Eriopyga*" from that area (Lafontaine & Schmidt 2010), see note under that undescribed species.
dissimilis (Barnes & McDunnough, 1910) (Cirphis)
mispl.

Genus ZOSTEROPODA Grote, 1874

9303163 Z. hirtipes Grote, 1874 (Zosteropoda) 10607
9303164 Z. clementei Meadows, 1942 (Zosteropoda) 10608

Genus NELEUCANIA Smith, 1902

9303166 N. patricia (Grote, 1880) (Heliophila) 10610
9303169 N. praegracilis (Grote, 1877) (Heliophila) 10613
bicolorata (Grote, 1881) (Heliophila) *[10611]*
citronella Smith, 1903 (Neleucania)
niveicosta Smith, 1902 (Neleucania) *[10612]*
suavis (Barnes & McDunnough, 1912) (Leucania) *[10609]*

Genus HYPOTRIX Guenée, 1852
ID INFO: Lafontaine et al (2010a).
TRICHAGROTIS McDunnough, 1929
TRICHORTHOSIA Grote, 1883
URSOGASTRA Smith, 1906

9303170 H. ferricola (Smith, 1905) (Leucania) 10614
9303171 H. diplogramma (Schaus, 1903) (Himella) 10615
albidior (Barnes & McDunnough, 1910) (Morrisonia)
inquisita (Dyar, 1920) (Scriptania)
9303172 H. parallela (Grote, 1883) (Trichorthosia) 10616
terminatissima (Dyar, 1904) (Taeniocampa)
9303173 H. rubra Lafontaine, Ferris & Walsh, 2010 (Hypotrix) [NEW]
9303174 H. spinosa (Barnes & McDunnough, 1912) (Trichorthosia) 10620
9303175 H. ocularis Lafontaine, Ferris & Walsh, 2010 (Hypotrix) [NEW]
9303176 H. basistriga Lafontaine, Ferris & Walsh, 2010 (Hypotrix) [NEW]
9303177 H. naglei Lafontaine, Ferris & Walsh, 2010 (Hypotrix) [NEW]
9303178 H. alamosa (Barnes, 1904) (Taeniocampa) 10599
9303179 H. trifascia (Smith, 1891) (Taeniocampa) 10597
9303180 H. optima (Dyar, 1920) (Scriptania) 10604
9303181 H. hueco (Barnes, 1904) (Mamestra) 10600
9303181.1 H. lactomellis Wikle & Crabo, 2018 (Hypotrix) [NEW]
9303182 H. lunata (Smith, 1906) (Ursogastra) 10606

Genus ANHYPOTRIX Lafontaine, Ferris & Walsh, 2010
ID INFO: Lafontaine et al (2010a).

9303183 A. tristis (Barnes & McDunnough, 1910) (Polia) 10617

Genus TRICHOFELTIA McDunnough, 1929
TRICHOFELTIA Barnes & Benjamin, 1929

9303186 T. circumdata (Grote, 1883) (Agrotis) 10621

Genus MIMOBARATHRA Barnes & McDunnough, 1915

9303187 M. antonito (Barnes, 1907) (Mamestra) 10622

Genus MIODERA Smith, 1908

9303188 M. stigmata Smith, 1908 (Miodera) 10623
9303189 M. eureka Barnes & Benjamin, 1927 (Miodera) 10624

Genus FERGUSONIX Mustelin & Leuschner, 2000
ID INFO: Mustelin et al. (2000).

9303190 F. januaris Mustelin & Leuschner, 2000 (Fergusonix) [NEW]

Genus TRICHOLITA Grote, 1875
ID INFO (partial): Crabo & Lafontaine (2009).

9303192 T. elsinora (Barnes, 1904) (Mamestra) 10626
erebus Smith, 1911 (Tricholita)
9303193 T. signata (Walker, 1860) (Nephelodes) 10627
ssp. a. signata (Walker, 1860) (Nephelodes)
igna (Barnes & Benjamin, 1927) (Chabuata)
semiaperta (Morrison, 1874) (Hydroecia)
ssp. b. semitropicae (Barnes & Benjamin, 1927) (Chabuata)
9303194 T. notata Strecker, 1898 (Tricholita) 10628
ota (Barnes & Benjamin, 1927) (Chabuata)
syrissa Strecker, 1899 (Tricholita)
9303195 T. baranca Barnes, 1905 (Tricholita) 10629
9303196 T. knudsoni Crabo & Lafontaine, 2009 (Tricholita) [NEW]
9303197 T. ferrisi Crabo & Lafontaine, 2009 (Tricholita) [NEW]
9303198 T. fistula Harvey, 1878 (Tricholita) 10630
ulamora Smith, 1911 (Tricholita)
9303199 T. chipeta Barnes, 1904 (Tricholita) 10631
ssp. a. chipeta Barnes, 1904 (Tricholita)
ssp. b. endiva Smith, 1911 (Tricholita)
vespera (Barnes & Lindsey, 1922) (Chabuata)
9303200 T. bisulca (Grote, 1881) (Mamestra) 10632
9303201 T. palmillo (Barnes, 1907) (Mamestra) 10267

Genus MARILOPTERYX Franclemont, 1982
ID INFO (partial): Blanchard & Franclemont (1982).

9303202 M. lutina (Smith, 1902) (Leucania) 10633
velutina (Smith, 1900) (Leucania)
9303203 M. carancahua Blanchard & Franclemont, 1982 (Marilopteryx) [NEW]

Genus LOPHOCERAMICA Dyar, 1908

93 3204 L. artega (Barnes, 1907) (Tricholita) 10634
eriopygoides Barnes & Benjamin, 1925 (Lophoceramica)
pallicauda (Smith, 1908) (Mamestra)

Genus HYDROECIODES Hampson, 1905

93 3205 H. juvenilis (Grote, 1881) (Gortyna) [NEW]
juvenalis; ([various, no date]) (Gortyna) missp. [10635]
93 3206 H. repleta (Bird, 1911) (Hydroecia) 10636
93 3207 H. serrata (Grote, 1880) (Gortyna) 10637
ochrimacula (Barnes & McDunnough, 1913) (Gortyna) [10638]
93 3209 H. auripurpura (Blanchard, 1968) (Hydroecia) 10639

Tribe GLOTTULINI Guenée, 1852

Genus XANTHOPASTIS Hübner, 1821
EUTHISANOTIA Hübner, 1831
PHILOCHRYSA Grote, 1863

93 3210 X. regnatrix (Grote, 1863) (Philochrysa) [NEW]
NOTE: This species was historically referred to as *X. timais*. The name *X. regnatrix* was applied first by Kimball (1965), but was not widely adopted until recently (Lafontaine & Schmidt 2011).
timais of authors; (not Cramer, [1780]) (Phalaena) misappl. [10640]
93 3210.1 X. moctezuma Dyar, 1913 (Xanthopastis) [NEW]

Tribe NOCTUINI Latreille, 1809

Subtribe AGROTINA Rambur, 1848

ID INFO: Lafontaine (1987, 2004).

AUSTRANDESIA GROUP OF GENERA Schmidt, 2023

NOTE: This group of genera was treated as the subtribe Austrandesiina Angulo & Olivares, 1990 by Lafontaine (2004). With a subsequent broader definition of the Noctuinae that resulted in former Noctuinae tribes down-ranked to subtribes, former subtribes were no longer recognized (e.g., Lafontaine & Schmidt 2010), as there is no formally recognized family-group rank below subtribe. In order to maintain the systematic information conveyed by the Austrandesiina in the sense of Lafontaine (2004), that taxon is here defined as the *Austrandesia* group.

Genus PERIDROMA Hübner, 1821
ID INFO: Lafontaine (2004).

93 3211 P. saucia (Hübner, [1808]) (Noctua) C 10915
aequa (Hübner, 1813) (Noctua)
ambrosioedes (Walker, 1857) (Agrotis)
angulifera (Wallengren, 1860) (Agrotis)
chilenaria Angulo & Jana-Saenz, 1984 (Peridroma)
fuscobrunnea (Strand, 1916) (Lycophotia)
impacta (Walker, 1857) (Agrotis)
inermis (Harris, 1841) (Agrotis)
infuscata (Blanchard, 1852) (Spaelotis)
intecta (Walker, 1857) (Agrotis)
majuscula (Haworth, 1809) (Noctua)
margaritosa (Haworth, 1809) (Noctua)
ochronota (Hampson, 1903) (Lycophotia)
ortonii (Packard, 1869) (Agrotis)
porphyrea of authors; (not [Denis & Schiffermüller], 1775) (Noctua) misappl.
stictica (Blanchard, 1852) (Spaelotis)
tenebricosa (Schawerda, 1929) (Agrotis)

Genus ANICLA Grote, 1874
ID INFO: Lafontaine (2004).

Subgenus ANICLA Grote, 1874
ANCIOLA; Neave, 1939 missp.
ANIDA; Grote, 1875 missp.
MISSIO Angulo, 1998

93 3212 A. infecta (Ochsenheimer, 1816) (Agrotis) 10911
alabamae Grote, 1874 (Anicla)
bartholemica (Wallengren, 1871) (Graphiphora)
incisa (Gundlach, 1881) (Agrotis)
incivis (Guenée, 1852) (Agrotis)
mahalpa Schaus, 1898 (Anicla)
mulina (Möschler, 1886) (Agrotis)
pauper (Butler, 1878) (Prodenia)
praecipua (Walker, 1869) (Laphygma)
93 3213 A. cemolia Franclemont, 1967 (Anicla) 10912

Subgenus EUAGROTIS McDunnough, [1929]

93 3214 A. lubricans (Guenée, 1852) (Noctua) 10901
associans (Walker, 1858) (Mamestra)
costigera (Walker, 1858) (Agrotis)
spreta (Smith, 1902) (Noctua)
93 3215 A. sullivani Lafontaine, 2004 (Anicla) [NEW]
93 3216 A. illapsa (Walker, 1857) (Graphiphora) 10903
93 3217 A. simplicius (Morrison, 1875) (Agrotis) emend. 10907
simplaria; (Morrison, 1875) (Agrotis) orig. missp.
93 3218 A. tenuescens (Smith, 1890) (Peridroma) 10909
93 3219 A. digna (Morrison, 1875) (Agrotis) 10908
nigrovittata (Grote, 1876) (Agrotis)
93 3220 A. biformata Lafontaine, 2004 (Anicla) [NEW]
93 3221 A. exuberans (Smith, 1898) (Noctua) 10905
bairdii (Smith, 1908) (Noctua) [10906]
93 3222 A. forbesi (Franclemont, 1952) (Euagrotis) 10902
93 3223 A. tepperi (Smith, 1888) (Agrotis) 10910
atricincta (Smith, 1895) (Noctua)
93 3224 A. espoetia (Dyar, 1910) (Lycophotia) [NEW]
93 3225 A. beata (Grote, 1883) (Agrotis) 10904
93 3226 A. mus Lafontaine, 2004 (Anicla) [NEW]

Genus HEMIEUXOA McDunnough, [1929]
ID INFO: Lafontaine (2004).

93 3227 H. rudens (Harvey, 1875) (Agrotis) 10914
pellucidalis (Grote, 1882) (Agrotis)

Genus STRIACOSTA Lafontaine, 2004
ID INFO: Lafontaine (2004).

93 3228 S. albicosta (Smith, 1888) (Agrotis) 10878
manethusa (Druce, 1889) (Agrotis)

AGROTIS GROUP OF GENERA Schmidt, 2023

NOTE: This group of genera was treated as the subtribe Agrotina of the tribe Agrotini by Lafontaine (2004), and is here termed the *Agrotis* group for the reasons discussed under the *Austrandesia* group.

Genus ACTEBIA Stephens, 1829
ID INFO: Lafontaine (2004).

Subgenus ACTEBIA Stephens, 1829
DISSIMACTEBIA Beck, 1992
HAPALIA Hübner, 1821

93 3229 A. fennica (Tauscher, 1806) (Noctua) H 10924
intracta (Walker, 1857) (Hadena)

Subgenus PROTEXARNIS McDunnough, [1929]

93 3230 A. balanitis (Grote, 1873) (Agrotis) H 10923
squalida of authors; (not Guenée, 1852) (Agrotis) misappl.

Genus DICHAGYRIS Lederer, 1857
ID INFO: Lafontaine (2004).

Subgenus LOXAGROTIS McDunnough, 1929
PSEUDOSEPTIS McDunnough, 1929

93 3231 D. grotei (Franclemont & Todd, 1983) (Loxagrotis) 10869
apicalis (Grote, 1881) (Agrotis)
93 3232 D. acclivis (Morrison, 1875) (Agrotis) 10870
opaca (Harvey, 1875) (Agrotis)
reclivis (Dyar, 1907) (Rhizagrotis)
93 3233 D. cataclivis (Dyar, 1910) (Euxoa) [NEW]
cyttara (Dyar, 1920) (Euxoa)
93 3234 D. proclivis (Smith, 1888) (Agrotis) 10871
oaxacana (Schaus, 1898) (Agrotis)
93 3235 D. neoclivis (Barnes & Benjamin, 1924) (Rhizagrotis) 10872
93 3236 D. capota (Smith, 1908) (Euxoa) [NEW]
capnota; (Franclemont & Todd, 1983) (Loxagrotis) missp. [10876]
delicatessa (Dyar, 1914) (Agrotis)
93 3237 D. mizteca (Schaus, 1894) (Carneades) [NEW]

misteca; (Hampson, 1903) (Carneades) emend.

933238 D. timbor (Dyar, 1919) (Agrotis) 10877
933239 D. pyrsogramma (Dyar, 1916) (Episilia) 10888
933240 D. salina (Barnes, 1904) (Rhizagrotis) 10873
933241 D. arabella (Dyar, 1901) (Euxoa) [NEW]
933242 D. socorro (Barnes, 1904) (Rhizagrotis) 10874
pampolycala (Dyar, 1912) (Lycophotia) [10875]
933243 D. polycala Lafontaine, 2004 (Dichagyris) [NEW]
NOTE: Prior to its description in 2004, this species was treated under the name *D. pampolycala*, now a synonym of *D. socorro*.
933244 D. triphaenoides (Dyar, 1912) (Lycophotia) 10667
orbipuncta (Barnes & McDunnough, 1916) (Rhynchagrotis)
933245 D. kyune (Barnes, 1904) (Hadena) 10880
933246 D. grandipennis (Grote, 1883) (Agrotis) 10890
jalapa (Hampson, 1903) (Agrotis)

Subgenus PSEUDORICHIA Lafontaine, 2004

933247 D. lobato (Barnes, 1904) (Pseudoglaea) 10884
lobata; [various, no date] (Dichagyris) missp.
933248 D. madida (Guenée, 1852) (Mesogona) [NEW]
hahama (Dyar, 1919) (Agrotis) [10885]
933249 D. larga (Smith, 1908) (Noctua) 10886
933250 D. cyminopristes (Dyar, 1912) (Episilia) 10887

Subgenus PSEUDORTHOSIA Grote, 1874

933251 D. variabilis (Grote, 1874) (Pseudorthosia) 10889
pallidior (Cockerell, 1906) (Pseudorthosia)

Subgenus MESEMBRAGROTIS Barnes & Benjamin, 1927
PRORAGROTIS McDunnough, 1929

933252 D. ruckesi (Barnes & Benjamin, 1927) (Mesembragrotis) 10701
933253 D. broui Lafontaine, 2004 (Dichagyris) [NEW]
933254 D. reliqua Lafontaine & Schweitzer, 2004 (Dichagyris) [NEW]
933255 D. longidens (Smith, 1890) (Feltia) 10699
933256 D. dubitata (McDunnough, 1933) (Proragrotis) 10700

Genus EUCOPTOCNEMIS Grote, 1874
ID INFO: Lafontaine (2004).

Subgenus EUCOPTOCNEMIS Grote, 1874

933257 E. fimbriaris (Guenée, 1852) (Heliophobus) 10694
obvia (Walker, 1858) (Graphiphora)
sordida Grote, 1893 (Eucoptocnemis)
tripars (Walker, 1856) (Mythimna) [10695]
worthingtoni (Grote, 1880) (Agrotis)
933258 E. dapsilis (Grote, 1882) (Agrotis) 10696
933259 E. rufula Lafontaine, 2004 (Eucoptocnemis) [NEW]
933259.1 E. ursae Lafontaine, 2004 (Eucoptocnemis) [NEW]
NOTE: Added to the NA list based on specimens collected in TX by Jim Vargo in 2015. They were originally identified as "*Eucoptocnemis* nr. *rufula*", and determined recently as *E. ursae* by Jim Troubridge (pers. comm.) (contributed by SRN).

Subgenus MANRUTA Smith, 1903

933260 E. elingua (Smith, 1903) (Manruta) 10697

Subgenus DESERTICA Lafontaine, 2004

933261 E. dollii (Grote, 1882) (Agrotis) [NEW]
dolli; (Franclemont & Todd, 1983) (Agrotis) emend. [10643]
933262 E. canescens Lafontaine, 2004 (Eucoptocnemis) [NEW]

Genus RICHIA Grote, 1887
ID INFO: Lafontaine (2004).

933263 R. chortalis (Harvey, 1875) (Agrotis) 10881
aratrix (Harvey, 1875) (Agrotis)
miniptica (Dyar, 1927) (Agrotis)
933264 R. parentalis (Grote, 1879) (Agrotis) 10882
decipiens (Grote, 1879) (Agrotis)
distichoides (Grote, 1883) (Ammoconia) [10883]
933265 R. serano (Smith, 1910) (Peridroma) 10879
933266 R. herculeana (Schaus, 1898) (Noctua) [NEW]
933267 R. praefixa (Morrison, 1875) (Agrotis) 10933
docilis (Grote, 1881) (Agrotis) [10932]
ingeniculata (Smith, 1890) (Agrotis)

Genus COPABLEPHARON Harvey, 1878
ID INFO: Lafontaine (2004).

Copablepharon longipenne group Lafontaine, Crabo & Fauske, 2004

933268 C. longipenne Grote, 1882 (Copablepharon) 10689
ssp. a. longipenne Grote, 1882 (Copablepharon)
ssp. b. serraticornis Blanchard, 1976 (Copablepharon) [10685]
933269 C. michiganensis Crabo & Lafontaine, 2004 (Copablepharon) [NEW]
933270 C. gillaspyi Blanchard, 1976 (Copablepharon) 10686
933271 C. pictum Fauske & Lafontaine, 2004 (Copablepharon) [NEW]
933272 C. nevada Crabo & Lafontaine, 2004 (Copablepharon) [NEW]
933273 C. mutans Crabo & Lafontaine, 2004 (Copablepharon) [NEW]
933274 C. columbia Crabo & Lafontaine, 2004 (Copablepharon) [NEW]
933275 C. alaskensis Crabo & Lafontaine, 2004 (Copablepharon) [NEW]
933276 C. serrata McDunnough, 1932 (Copablepharon) 10684
933277 C. mustelini Crabo & Lafontaine, 2004 (Copablepharon) [NEW]
933278 C. serratigrande Lafontaine, 2004 (Copablepharon) [NEW]

Copablepharon albisericea group Lafontaine, Crabo & Fauske, 2004

933279 C. albisericea Blanchard, 1976 (Copablepharon) 10693
933280 C. spiritum Crabo & Fauske, 2004 (Copablepharon) [NEW]
ssp. a. spiritum Crabo & Fauske, 2004 (Copablepharon)
ssp. b. lutescens Crabo & Fauske, 2004 (Copablepharon)
ssp. c. bicolor Crabo & Fauske, 2004 (Copablepharon)

Copablepharon flavum group Lafontaine, Crabo & Fauske, 2004

933281 C. flavum Fauske & Lafontaine, 2004 (Copablepharon) [NEW]

Copablepharon canariana group Lafontaine, Crabo & Fauske, 2004

933282 C. canariana McDunnough, 1932 (Copablepharon) 10682
ssp. a. canariana McDunnough, 1933 (Copablepharon)
ssp. b. contrasta McDunnough, 1932 (Copablepharon) [10683]
contrasa; Lafontaine & Schmidt, 2010 (Copablepharon) missp.

Copablepharon grandis group Lafontaine, Crabo & Fauske, 2004

933283 C. grandis (Strecker, 1878) (Aedophron) 10681
subflavidens Grote, 1882 (Copablepharon)
933284 C. sanctaemonicae Dyar, 1904 (Copablepharon) 10691

Copablepharon opleri group Lafontaine, Crabo & Fauske, 2004

933285 C. opleri Lafontaine, 2004 (Copablepharon) [NEW]

Copablepharon absidum group Lafontaine, Crabo & Fauske, 2004

933286 C. absidum (Harvey, 1875) (Ablepharon) 10690
933287 C. fuscum Troubridge & Crabo, 1996 (Copablepharon) [NEW]
933288 C. atrinotum Crabo & Lafontaine, 2004 (Copablepharon) [NEW]

Copablepharon viridisparsa group Lafontaine, Crabo & Fauske, 2004

93 3289 C. viridisparsa Dod, 1916 (Copablepharon) 10687
ssp. a. viridisparsa Dod, 1916 (Copablepharon)
ssp. b. hopfingeri Franclemont, 1954 (Copablepharon) [10688]
ssp. c. ravum Crabo & Lafontaine, 2004 (Copablepharon)
ssp. d. gilvum Crabo & Lafontaine, 2004 (Copablepharon)
93 3290 C. robertsoni Crabo & Lafontaine, 2004 (Copablepharon) [NEW]

Genus PROTOGYGIA McDunnough, 1929
ID INFO: Lafontaine (2004); also Metzler et al. (2009), Metzler (2017b).

Protogygia lagena group Lafontaine & Fauske, 2004

93 3291 P. comstocki McDunnough, 1934 (Protogygia) 10895
93 3292 P. enalaga McDunnough, 1932 (Protogygia) 10893
93 3293 P. lagena (Grote, 1875) (Agrotis) 10892
93 3294 P. postera Fauske & Lafontaine, 2004 (Protogygia) [NEW]
93 3295 P. rufescens Fauske & Lafontaine, 2004 (Protogygia) [NEW]
93 3296 P. querula (Dod, 1915) (Rhizagrotis) 10894
epipsilioides (Barnes & Benjamin, 1926) (Rhizagrotis) *[10897]*

Protogygia elevata group Lafontaine & Fauske, 2004

93 3297 P. elevata (Smith, 1891) (Pachnobia) 10900
terrifica (Smith, 1893) (Setagrotis)
93 3298 P. arena Troubridge & Lafontaine, 2004 (Protogygia) [NEW]
93 3299 P. alberta Troubridge & Lafontaine, 2004 (Protogygia) [NEW]

Protogygia album group Lafontaine & Fauske, 2004

93 3300 P. album (Harvey, 1876) (Arsilonche) 10692
93 3301 P. pallida Fauske & Lafontaine, 2004 (Protogygia) [NEW]
93 3302 P. polingi (Barnes & Benjamin, 1922) (Rhizagrotis) 10896
93 3303 P. pectinata Lafontaine, 2004 (Protogygia) [NEW]
93 3304 P. whitesandsensis Metzler & Forbes, 2009 (Protogygia) [NEW]
93 3305 P. biclavis (Grote, 1879) (Agrotis) 10899
demutabilis (Smith, 1893) (Peridroma)
93 3306 P. milleri (Grote, 1876) (Agrotis) 10898

Genus EUXOA Hübner, 1821
ID INFO: Lafontaine (1987); also Mustelin et al. (2000), Crabo & Crabo (2007), Metzler et al. (2009), Lafontaine & Troubridge (2010).

Subgenus CRASSIVESICA Hardwick, 1970

93 3307 E. bochus (Morrison, 1875) (Agrotis) 10913
brocha; [various, no date] (Euxoa) missp.
brochus; (Morrison, 1875) (Agrotis) missp.

Subgenus CHORIZAGROTIS Smith, 1890
MESOEUXOA Corti, 1932

93 3308 E. adumbrata (Eversmann, 1842) (Agrotis) extralim. H [NEW]
ssp. a. drewseni (Staudinger, 1857) (Agrotis) [10730]
boretha (Smith, 1908) (Chorizagrotis)
dreuseni; Hampson, 1903 (Euxoa) emend.
perfida Dod, 1916 (Euxoa)
sordida (Smith, 1908) (Chorizagrotis)
ssp. b. thanatologia (Dyar, 1904) (Porosagrotis)
lidia of authors; (not Stoll, in: Cramer, [1782]) (Phalaena) misappl.
NOTE: This Old World name was used historically (e.g., by Lafontaine 1987) for the species now called *E. adumbrata*.
thantologia; Lafontaine & Schmidt, 2010 (Euxoa) missp.
93 3309 E. auxiliaris (Grote, 1873) (Agrotis) 10731
agrestis (Grote, 1877) (Agrotis)
flexilis (Smith, 1890) (Agrotis)
introferens (Grote, 1875) (Agrotis)
montanus (Cook, 1930) (Chorizagrotis)
tegularis (Draudt, 1924) ([unknown])
tegularis (Strand, 1916) (Agrotis)
93 3310 E. inconcinna (Harvey, 1875) (Agrotis) 10732
mercenaria (Grote, 1878) (Agrotis)
sorror (Smith, 1888) (Agrotis)
93 3311 E. terrealis (Grote, 1883) (Agrotis) 10733

Subgenus PALAEOEUXOA Lafontaine, 1987

93 3312 E. shasta Lafontaine, 1975 (Euxoa) 10735
ssp. a. shasta Lafontaine, 1975 (Euxoa)
ssp. b. condita Lafontaine, 1975 (Euxoa) [10734]
93 3313 E. biformata Smith, 1910 (Euxoa) 10736
93 3314 E. intermontana Lafontaine, 1975 (Euxoa) 10737
93 3315 E. mimallonis (Grote, 1873) (Agrotis) 10738
ssp. a. mimallonis (Grote, 1873) (Agrotis)
caenis (Grote, 1879) (Agrotis)
lenola Smith, 1910 (Euxoa)
muscosa (Grote, 1883) (Agrotis)
rufipennis (Grote, 1875) (Agrotis)
ssp. b. gagates (Grote, 1875) (Agrotis)

Subgenus HETEROEUXOA Lafontaine, 1987

93 3316 E. vernalis Lafontaine, 1976 (Euxoa) 10740
93 3317 E. septentrionalis (Walker, 1865) (Mamestra) 10739
incubita (Smith, 1900) (Carneades)
93 3318 E. olivia (Morrison, 1876) (Agrotis) 10741
anacosta Smith, 1905 (Euxoa)
enteridis (Smith, 1900) (Carneades)
fieldii Dyar, 1908 (Euxoa)
lacunosa (Grote, 1878) (Agrotis)
segregata (Smith, 1894) (Carneades)
vanidicus (Smith, 1900) (Carneades)
zembla Smith, 1905 (Euxoa)

Subgenus LONGIVESICA Hardwick, 1970

93 3319 E. messoria (Harris, 1841) (Agrotis) 10705
atrifera (Grote, 1878) (Agrotis)
cochranis (Riley, 1867) (Agrotis)
displiciens (Walker, 1865) (Mamestra)
expulsa (Walker, 1865) (Mamestra)
friabilis (Grote, 1875) (Agrotis)
fulda (Smith, 1900) (Carneades)
indirecta (Walker, 1865) (Mamestra)
inextricata (Walker, 1865) (Mamestra)
inordita (Barnes & Benjamin, 1926) (Agrotis)
ordinata (Walker, 1865) (Agrotis)
pindar (Smith, 1900) (Carneades)
repentis (Grote & Robinson, 1868) (Agrotis)
reticens (Walker, 1865) (Agrotis)
spissa (Guenée, 1852) (Agrotis)
territorialis (Smith, 1900) (Carneades)
93 3320 E. divergens (Walker, [1857]) (Agrotis) 10702
abar (Strecker, 1899) (Agrotis)
factoris (Smith, 1900) (Carneades)
fusimacula (Smith, 1891) (Carneades)
versipellis (Grote, 1875) (Agrotis)
93 3321 E. sinelinea Hardwick, 1965 (Euxoa) 10703
93 3322 E. edictalis (Smith, 1893) (Carneades) 10704

Subgenus PLEONECTOPODA Grote, 1873

Euxoa westermanni group Lafontaine, 1987

93 3323 E. westermanni (Staudinger, 1857) (Noctua) 10707
polaris (Bang-Haas, 1910) (Agrotis)
vestermanni; Hampson, 1903 (Euxoa) emend.
93 3324 E. churchillensis (McDunnough, 1932) (Agrotiphila) 10711
ssp. a. churchillensis (McDunnough, 1932) (Agrotiphila)
ssp. b. alpina Lafontaine, 1987 (Euxoa)
93 3325 E. muldersi Lafontaine & Hensel, 2010 (Euxoa) [NEW]
93 3326 E. dissona (Möschler, 1860) (Agrotis) 10706
labradoriensis (Staudinger, 1881) (Agrotis)
opipara (Morrison, 1875) (Agrotis)
solitaria (Smith, 1888) (Agrotis)

9333327 E. hyperborea Lafontaine, 1987 (Euxoa) H [NEW]
9333328 E. quebecensis (Smith, 1900) (Setagrotis) 10714
moxa Smith, 1907 (Euxoa)
quinta Smith, 1908 (Euxoa)
9333329 E. scandens (Riley, 1869) (Agrotis) 10715
elata (Smith, 1898) (Setagrotis)
fulminans (Grote, 1895) (Agrotis)
9333330 E. aurulenta (Smith, 1888) (Agrotis) 10716
aurulentoides (Strand, 1916) (Agrotis)
9333331 E. vallus (Smith, 1900) (Carneades) 10709
ssp. a. vallus (Smith, 1900) (Carneades)
luteomaculata Hardwick, 1966 (Euxoa)
ssp. b. luteositus (Smith, 1900) (Carneades) [10710]
9333331.1 E. bivittata Lafontaine, 1987 (Euxoa) [NEW]
9333332 E. macleani McDunnough, 1927 (Euxoa) 10712
9333333 E. apopsis Troubridge & Lafontaine, 2010 (Euxoa) [NEW]
9333334 E. chimoensis Hardwick, 1966 (Euxoa) 10713
9333335 E. trifasciata (Smith, 1888) (Agrotis) 10717
9333336 E. lewisi (Grote, 1873) (Pleonectopoda) 10718
ssp. a. lewisi (Grote, 1873) (Pleonectopoda)
colata (Grote, 1881) (Agrotis)
levisi; Hampson, 1903 (Euxoa) emend.
ssp. b. juliae Hardwick, 1968 (Euxoa) [10719]
9333337 E. altens McDunnough, 1946 (Euxoa) 10720
9333338 E. austrina Hardwick, 1968 (Euxoa) 10721
9333339 E. cryptica Hardwick, 1968 (Euxoa) 10722
9333340 E. leuschneri Lafontaine, 1987 (Euxoa) [NEW]
9333341 E. extranea (Smith, 1888) (Agrotis) 10708
quinquelinea (Smith, 1890) (Agrotis)

Euxoa tristicula group Lafontaine, 1987

9333342 E. tristicula (Morrison, 1876) (Agrotis) 10723
nesilens Smith, 1904 (Euxoa)

Euxoa vetusta group Lafontaine, 1987

9333343 E. vetusta (Walker, 1865) (Mamestra) 10724
euroides (Grote, 1874) (Agrotis)
perpura (Morrison, 1875) (Agrotis)
tetra (Walker, 1865) (Lepipolys)

Euxoa fuscigerus group Lafontaine, 1987

9333344 E. fuscigerus (Grote, 1874) (Agrotis) 10725
feniseca (Harvey, 1875) (Agrotis)
leucopterota McDunnough, 1946 (Euxoa)

Euxoa atomaris group Lafontaine, 1987

9333345 E. atomaris (Smith, 1890) (Agrotis) 10726
ssp. a. atomaris (Smith, 1890) (Agrotis)
ssp. b. detesta (Smith, 1893) (Carneades)
choris (Smith, 1890) (Carneades)
ssp. c. esta Smith, 1906 (Euxoa)

Euxoa pleuritica group Lafontaine, 1987

9333346 E. pleuritica (Grote, 1876) (Agrotis) 10727
confracta (Smith, 1890) (Carneades)
9333347 E. pestula Smith, 1904 (Euxoa) 10728
petruska McDunnough, 1932 (Euxoa)
9333348 E. simona McDunnough, 1932 (Euxoa) 10729
pleuriticoides Benjamin, 1936 (Euxoa)

Subgenus EUXOA Hübner, 1821
BROTIS Hübner, 1821
CARNEADES Grote, 1873
EXARNIS Hübner, 1821
METAXYIA; Hampson, 1903 missp.
METAXYJA Hübner, 1821
MIMETES Hübner, 1821
MIMETIS; Hampson, 1903 missp.
PARAGROTIS Pratt, 1902
TELMIA Hübner, 1821

Euxoa hardwicki group Lafontaine, 1987

9333349 E. hardwicki Lafontaine, 1987 (Euxoa) [NEW]

Euxoa camalpa group Lafontaine, 1987

9333350 E. camalpa (Dyar, 1912) (Porosagrotis) 10772
clavigera Dyar, 1922 (Euxoa)
manca Benjamin, 1936 (Euxoa)
9333351 E. maderensis Lafontaine, 1976 (Euxoa) 10773

Euxoa serotina group Lafontaine, 1987

9333352 E. serotina Lafontaine, 1976 (Euxoa) 10771

Euxoa bostoniensis group Lafontaine, 1987

9333353 E. bostoniensis (Grote, 1874) (Agrotis) 10812
9333354 E. medialis (Smith, 1888) (Agrotis) 10813
cerrvillei; Hampson, 1903 (Euxoa) emend.
discilinea Dyar, 1918 (Euxoa)
kerrvillei (Smith, 1900) (Carneades)
poncha Smith, 1910 (Euxoa)
rufosuffusata McDunnough, 1940 (Euxoa)
truva Smith, 1910 (Euxoa)
9333355 E. bifasciata (Smith, 1888) (Agrotis) 10796
bisagittifera Benjamin, 1936 (Euxoa)
lowensis Benjamin, 1936 (Euxoa)
9333356 E. perexcellens (Grote, 1875) (Agrotis) 10816
excellens (Grote, 1875) (Agrotis)
infelix (Smith, 1890) (Agrotis)
9333357 E. sculptilis (Harvey, 1875) (Agrotis) 10815
xyliniformis (Smith, 1890) (Carneades)
9333358 E. ustulata Lafontaine, 1976 (Euxoa) 10814

Euxoa rufula group Lafontaine, 1987

9333359 E. rufula (Smith, 1888) (Agrotis) 10750
ssp. a. rufula (Smith, 1888) (Agrotis)
ssp. b. basiflava (Smith, 1890) (Agrotis)
compressipennis (Smith, 1900) (Carneades)
intrusa (Smith, 1900) (Carneades)

Euxoa intrita group Lafontaine, 1987

9333360 E. intrita (Morrison, 1875) (Agrotis) 10749
alticola (Smith, 1890) (Agrotis)
reuda (Strecker, 1898) (Agrotis)
strigilis (Grote, 1876) (Agrotis)
titubatis (Smith, 1894) (Carneades)

Euxoa annulipes group Lafontaine, 1987

9333361 E. annulipes (Smith, 1890) (Agrotis) 10747
9333362 E. emma Crabo & Crabo, 2007 (Euxoa) [NEW]
9333363 E. oncocnemoides (Barnes & Benjamin, 1927) (Agrotis) 10748

Euxoa scholastica group Lafontaine, 1987

9333364 E. scholastica McDunnough, 1920 (Euxoa) 10793

Euxoa terrenus group Lafontaine, 1987

9333365 E. terrenus (Smith, 1900) (Carneades) 10742
lagganae (Smith, 1900) (Carneades)
9333366 E. antica Lafontaine, 1974 (Euxoa) 10743
9333367 E. franclemonti Lafontaine, 1987 (Euxoa) [NEW]
9333368 E. absona Lafontaine, 1987 (Euxoa) [NEW]

Euxoa serricornis group Lafontaine, 1987

9333369 E. serricornis (Smith, 1888) (Agrotis) 10744
epictata Smith, 1907 (Euxoa)
itodes (Smith, 1900) (Carneades)
9333370 E. tocoyae (Smith, 1900) (Carneades) 10745
sonoma McDunnough, 1941 (Euxoa)
9333371 E. scotogrammoides McDunnough, 1932 (Euxoa) 10746

Euxoa pluralis group Lafontaine, 1987

9333372 E. pluralis (Grote, 1878) (Agrotis) 10795
9333373 E. cinnabarina Barnes & McDunnough, 1918 (Euxoa) 10797
9333374 E. permixta McDunnough, 1940 (Euxoa) 10799
coloradensis Strand, 1916 (Euxoa)

Euxoa setonia group Lafontaine, 1987

93 3375 E. setonia McDunnough, 1927 (Euxoa) 10794
93 3376 E. pallidimacula Lafontaine, 1987 (Euxoa) [NEW]
93 3377 E. mojave Lafontaine, 1987 (Euxoa) [NEW]

Euxoa declarata group Lafontaine, 1987

93 3378 E. declarata (Walker, 1865) (Mamestra) 10755
californica Hardwick, 1973 (Euxoa)
decolor (Morrison, 1875) (Agrotis)
spectanda (Smith, 1890) (Agrotis)
93 3379 E. campestris (Grote, 1875) (Agrotis) 10756
93 3380 E. rockburnei Hardwick, 1973 (Euxoa) 10757
93 3381 E. flavidens (Smith, 1888) (Agrotis) 10758
intricata (Dyar, 1920) (Mesembreuxoa)

Euxoa silens group Lafontaine, 1987

93 3382 E. silens (Grote, 1875) (Agrotis) 10751
93 3383 E. pimensis Barnes & McDunnough, 1910 (Euxoa) 10752
93 3384 E. immixta (Grote, 1881) (Agrotis) 10753
knoxvillea McDunnough, 1937 (Euxoa)
tetrica (Smith, 1888) (Agrotis)

Euxoa simulata group Lafontaine, 1987

93 3385 E. simulata McDunnough, 1946 (Euxoa) 10754
93 3386 E. lafontainei Metzler & Forbes, 2009 (Euxoa) [NEW]

Euxoa punctigera group Lafontaine, 1987

93 3387 E. punctigera (Walker, 1865) (Mamestra) 10759
pastoralis (Grote, 1875) (Agrotis)
93 3388 E. cana Lafontaine, 1975 (Euxoa) 10762
93 3389 E. aurantiaca Lafontaine, 1975 (Euxoa) 10760
93 3390 E. stygialis (Barnes & McDunnough, 1912) (Feltia) 10761
93 3391 E. stigmatalis (Smith, 1900) (Carneades) 10764
93 3392 E. spumata McDunnough, 1940 (Euxoa) 10763

Euxoa pallipennis group Lafontaine, 1987

93 3393 E. pallipennis (Smith, 1888) (Agrotis) 10765
alcesta Smith, 1905 (Euxoa)
93 3394 E. baja Lafontaine, 1987 (Euxoa) [NEW]

Euxoa tessellata group Lafontaine, 1987

93 3395 E. tessellata (Harris, 1841) (Agrotis) 10805
acutifrons (Smith, 1900) (Carneades)
atrofusca (Smith, 1900) (Carneades)
atropurpurea (Grote, 1877) (Agrotis)
caesius (Smith, 1900) (Carneades)
cariosus (Smith, 1900) (Carneades)
finis (Smith, 1888) (Arotis)
flaviscapula (Smith, 1900) (Carneades)
focinus (Smith, 1903) (Carneades)
insignata (Walker, 1857) (Agrotis)
insulsa (Walker, 1856) (Mamestra)
laminis (Smith, 1900) (Carneades)
maizi (Fitch, 1864) (Agrotis)
marinensis McDunnough, 1941 (Euxoa)
neotelis (Smith, 1900) (Carneades)
noctuiformis (Smith, 1900) (Carneades)
nordica (Smith, 1900) (Carneades)
objurgata (Smith, 1900) (Carneades)
perlentans (Walker, 1857) (Agrotis)
remota (Smith, 1890) (Agrotis)
tesselloides (Grote, 1882) (Agrotis)
93 3396 E. plagigera (Morrison, 1875) (Agrotis) 10804

Euxoa albipennis group Lafontaine, 1987

93 3397 E. albipennis (Grote, 1876) (Agrotis) 10807
bialba Smith, 1905 (Euxoa)
indensa Smith, 1910 (Euxoa)
malis (Smith, 1900) (Carneades)
nigripennis (Grote, 1881) (Agrotis)
verticalis (Grote, 1880) (Agrotis)
93 3398 E. henrietta (Smith, 1900) (Carneades) 10806
adusta Barnes & McDunnough, 1912 (Euxoa)
delicata Barnes & McDunnough, 1912 (Euxoa)

Euxoa cincta group Lafontaine, 1987

93 3399 E. cincta Barnes & Benjamin, 1924 (Euxoa) 10823
93 3400 E. coconino Lafontaine, 1987 (Euxoa) [NEW]

Euxoa hollemani group Lafontaine, 1987

93 3401 E. hollemani (Grote, 1874) (Agrotis) 10820
andera Smith, 1910 (Euxoa) *[10822]*
93 3402 E. subandera Lafontaine, 1987 (Euxoa) [NEW]
93 3403 E. xasta Barnes & McDunnough, 1910 (Euxoa) 10821

Euxoa catenula group Lafontaine, 1987

93 3404 E. catenula (Grote, 1879) (Agrotis) 10809
ssp. a. catenula (Grote, 1879) (Agrotis)
contagionis (Smith, 1900) (Carneades)
ssp. b. lindseyi Blackmore, 1923 (Euxoa)

Euxoa comosa group Lafontaine, 1987

93 3405 E. comosa (Morrison, 1876) (Agrotis) 10780
ssp. a. comosa (Morrison, 1876) (Agrotis)
atropulverea (Smith, 1900) (Carneades)
incallida (Smith, 1890) (Agrotis) preocc. *[10783]*
masoni Cockerell, 1905 (Euxoa)
ternarius (Smith, 1900) (Carneades)
ssp. b. lutulenta (Smith, 1890) (Agrotis)
johnstoni McDunnough, 1946 (Euxoa)
latebra Benjamin, 1936 (Euxoa)
luteotincta McDunnough, 1940 (Euxoa)
vulpina (Smith, 1895) (Carneades)
ssp. c. annir (Strecker, 1898) (Agrotis)
dacota; Hampson, 1903 (Euxoa) emend.
dakota (Smith, 1900) (Carneades)
ssp. d. altera McDunnough, 1940 (Euxoa)
ssp. e. ontario (Smith, 1900) (Carneades)
vestitura Smith, 1905 (Euxoa)
yildizae Koçak, 1983 (Euxoa)
93 3406 E. lineifrons (Smith, 1890) (Carneades) 10784
audentis (Smith, 1894) (Carneades)
93 3407 E. guadalupensis Lafontaine & Byers, 1982 (Euxoa) [NEW]
93 3408 E. lucida Barnes & McDunnough, 1912 (Euxoa) 10782
93 3409 E. fumalis (Grote, 1873) (Agrotis) 10781
permunda (Morrison, 1875) (Agrotis)
93 3410 E. occidentalis Lafontaine & Byers, 1982 (Euxoa) [NEW]
93 3411 E. velleripennis (Grote, 1874) (Agrotis) 10803

Euxoa infausta group Lafontaine, 1987

93 3412 E. infausta (Walker, 1865) (Hadena) 10785
holoberba (Smith, 1900) (Carneades)
numa (Strecker, 1898) (Agrotis)
relaxus (Smith, 1900) (Carneades)
rubefactalis (Grote, 1881) (Agrotis)
sponsa (Smith, 1888) (Agrotis)
93 3413 E. satis (Harvey, 1876) (Agrotis) 10786
cocklei Smith, 1908 (Euxoa)
micronyx (Grote, 1878) (Agrotis)
perfusca (Grote, 1883) (Agrotis)
93 3414 E. faulkneri Mustelin, 2000 (Euxoa) [NEW]
93 3415 E. brunneigera (Grote, 1876) (Agrotis) [NEW]
loya (Smith, 1900) (Carneades) *[10787]*
monteclara (Smith, 1906) (Noctua)
obscura Hill, 1924 (Euxoa)
93 3416 E. excogita (Smith, 1900) (Carneades) [NEW]
93 3417 E. bicollaris (Grote, 1878) (Agrotis) 10788
abnormis (Smith, 1890) (Agrotis)
93 3418 E. inyoca Benjamin, 1936 (Euxoa) 10789
93 3419 E. selenis (Smith, 1900) (Carneades) 10790
claromonta Smith, 1906 (Euxoa)
93 3420 E. piniae Buckett & Bauer, 1964 (Euxoa) 10791
93 3421 E. satiens (Smith, 1890) (Agrotis) 10792

Euxoa violaris group Lafontaine, 1987

93 3422 E. violaris (Grote & Robinson, 1868) (Agrotis) 10810

Euxoa cursoria group Lafontaine, 1987

93 3423 E. cursoria (Hufnagel, 1766) (Phalaena) extralim. H [NEW]
ssp. a. wirima Hardwick, 1965 (Euxoa) [10802]
93 3424 E. ochrogaster (Guenée, 1852) (Noctua) H 10801
cinereomacula (Morrison, 1875) (Agrotis)
gularis (Grote, 1875) (Agrotis)
illata (Walker, 1857) (Agrotis)
insignata (Walker, 1857) (Agrotis)
islandica (Staudinger, 1857) (Agrotis)
karschi (Graeser, 1890) (Agrotis)
rossica (Staudinger, 1881) (Agrotis)
sjoestedti Corti, 1929 (Euxoa)
subsignata (Walker, 1865) (Agrotis)
turris (Grote, 1875) (Agrotis)
yarkenda Corti, 1932 (Euxoa)
93 3425 E. nostra (Smith, 1890) (Agrotis) 10800

Euxoa siccata group Lafontaine, 1987

93 3426 E. siccata (Smith, 1893) (Carneades) 10811
placida Barnes & McDunnough, 1912 (Euxoa)

Euxoa choris group Lafontaine, 1987

93 3427 E. choris (Harvey, 1876) (Agrotis) 10819
achor (Strecker, 1899) (Agrotis)
cogitans (Smith, 1890) (Agrotis)

Euxoa obeliscoides group Lafontaine, 1987

93 3428 E. obeliscoides (Guenée, 1852) (Agrotis) 10817
infusa (Smith, 1902) (Carneades)
sexatilis (Grote, 1873) (Agrotis)
93 3429 E. oberfoelli Hardwick, 1973 (Euxoa) 10818

Euxoa lillooet group Lafontaine, 1987

93 3430 E. lillooet McDunnough, 1927 (Euxoa) 10808

Euxoa basalis group Lafontaine, 1987

93 3431 E. basalis (Grote, 1879) (Agrotis) 10798

Euxoa detersa group Lafontaine, 1987

93 3432 E. costata (Grote, 1876) (Agrotis) 10825
93 3433 E. castanea Lafontaine, 1981 (Euxoa) [NEW]
93 3434 E. foeminalis (Smith, 1900) (Carneades) 10828
93 3435 E. idahoensis (Grote, 1878) (Agrotis) 10826
93 3436 E. furtivus (Smith, 1890) (Agrotis) [NEW]
93 3437 E. clausa McDunnough, 1923 (Euxoa) 10827
93 3438 E. brevipennis (Smith, 1888) (Agrotis) 10824
angulirena Smith, 1910 (Euxoa)
brevistriga Smith, 1910 (Euxoa)
93 3439 E. servitus (Smith, 1895) (Carneades) 10854
novangliae McDunnough, 1950 (Euxoa)
93 3440 E. redimicula (Morrison, 1875) (Agrotis) emend. 10851
redimacula; (Morrison, 1875) (Agrotis) orig. missp.
NOTE: Morrison corrected his original misspelling in a paper that came out later the same year.
93 3441 E. auripennis Lafontaine, 1974 (Euxoa) 10852
arizonensis Lafontaine, 1974 (Euxoa) [10853]
93 3442 E. olivalis (Grote, 1879) (Agrotis) 10833
mcdunnoughi Cook, 1930 (Euxoa)
93 3443 E. agema (Strecker, 1899) (Agrotis) 10832
93 3444 E. oblongistigma (Smith, 1888) (Agrotis) 10834
93 3445 E. citricolor (Grote, 1880) (Agrotis) 10841
postmedialis Draudt, 1924 (Euxoa)
postmedialis Strand, 1916 (Euxoa)
93 3446 E. tronellus (Smith, 1903) (Carneades) 10842
93 3447 E. teleboa (Smith, 1890) (Carneades) 10843
pedalis (Smith, 1890) (Carneades)
recticincta (Smith, 1895) (Carneades)
93 3448 E. difformis (Smith, 1900) (Carneades) 10845
mercedes Barnes & McDunnough, 1912 (Euxoa) [10844]
93 3449 E. moerens (Grote, 1883) (Agrotis) 10847
luteola (Smith, 1888) (Agrotis)
93 3450 E. latro (Barnes & Benjamin, 1927) (Agrotis) 10848
93 3451 E. murdocki (Smith, 1890) (Agrotis) 10846
murdoci; Hampson, 1903 (Euxoa) emend.
93 3452 E. dodi McDunnough, 1923 (Euxoa) 10849
93 3453 E. infracta (Morrison, 1875) (Agrotis) 10850
93 3454 E. laetificans (Smith, 1894) (Carneades) 10829
masculinus (Smith, 1903) (Carneades)
93 3455 E. quadridentata (Grote & Robinson, 1865) (Agrotis) 10830
ssp. a. quadridentata (Grote & Robinson, 1865) (Agrotis)
pugionis (Smith, 1900) (Carneades)
ssp. b. flutea Smith, 1910 (Euxoa)
93 3456 E. inscripta Lafontaine, 1981 (Euxoa) [NEW]
93 3457 E. unica McDunnough, 1940 (Euxoa) 10837
93 3458 E. niveilinea (Grote, 1882) (Agrotis) 10831
rabiata Smith, 1910 (Euxoa)
93 3459 E. dargo (Strecker, 1898) (Agrotis) 10836
rumatana (Smith, 1903) (Carneades)
93 3460 E. melura McDunnough, 1932 (Euxoa) 10835
93 3461 E. detersa (Walker, 1856) (Charaeas) 10838
ssp. a. detersa (Walker, 1856) (Charaeas)
pitychrous (Grote, 1873) (Agrotis)
ssp. b. personata (Morrison, 1876) (Agrotis)
azif (Strecker, 1898) (Agrotis)
93 3462 E. cicatricosa (Grote & Robinson, 1865) (Agrotis) 10839
ducalis (Smith, 1907) (Setagrotis)
neomexicana (Smith, 1890) (Carneades)
teplia Smith, 1910 (Euxoa)
93 3463 E. recula (Harvey, 1876) (Agrotis) 10840

Euxoa aequalis group Lafontaine, 1987

93 3464 E. aequalis (Harvey, 1876) (Agrotis) 10776
ssp. a. aequalis (Harvey, 1876) (Agrotis)
megastigma (Smith, 1900) (Carneades)
testula (Smith, 1900) (Carneades)
ssp. b. acornis (Smith, 1895) (Carneades) [10777]
ssp. c. alko (Strecker, 1899) (Agrotis)
naevulus (Smith, 1900) (Carneades)
sessile (Smith, 1900) (Carneades)
termessus (Smith, 1900) (Carneades)
ssp. d. yukonensis Lafontaine, 1987 (Euxoa)
93 3465 E. conjuncta (Smith, 1890) (Carneades) 10778
93 3466 E. cona (Strecker, 1898) (Agrotis) 10779
sotnia Smith, 1905 (Euxoa)
93 3467 E. munis (Grote, 1879) (Agrotis) 10855
cervinea Smith, 1910 (Euxoa)
dolens (Smith, 1906) (Setagrotis)
rena (Smith, 1890) (Agrotis)
sublatis (Grote, 1880) (Agrotis)

Euxoa misturata group Lafontaine, 1987

93 3468 E. misturata (Smith, 1890) (Carneades) 10766
candida (Smith, 1894) (Carneades)
falerina (Smith, 1900) (Carneades)
gian (Strecker, 1898) (Agrotis)
perturbata (Smith, 1890) (Carneades)
vertesta Smith, 1910 (Euxoa)
93 3469 E. melana Lafontaine, 1975 (Euxoa) 10767

Euxoa atristrigata group Lafontaine, 1987

93 3470 E. atristrigata (Smith, 1890) (Agrotis) 10768
collocata (Smith, 1894) (Carneades)
93 3471 E. nevada (Smith, 1900) (Carneades) 10769
floramina Smith, 1905 (Euxoa)

Euxoa cinereopallidus group Lafontaine, 1987

93 3472 E. cinereopallidus (Smith, 1903) (Carneades) 10770

Euxoa mitis group Lafontaine, 1987

93 3473 E. mitis (Smith, 1894) (Carneades) 10774
colla (Strecker, 1898) (Agrotis)
ura Smith, 1905 (Euxoa)
uramina Smith, 1905 (Euxoa)

Euxoa luctuosa group Lafontaine, 1987

93 3474 E. luctuosa Lafontaine, 1976 (Euxoa) 10775

Subgenus OROSAGROTIS Hampson, 1903
MENADA Kozhantschikov, 1937
PROSAGROTIS; Warren, 1911 missp.

Euxoa nomas group Lafontaine, 1987

93 3475 E. aberrans McDunnough, 1932 (Euxoa) 10862
93 3476 E. nomas (Erschov, 1874) (Agrotis) H [NEW]
NOTE: Lafontaine (1987) treated *incognita* as the NA subspecies of this Holarctic species. Lafontaine & Schmidt (2010) treated *incognita* as a synonym but incorrectly attributed the synonymy to Lafontaine (1987).
incognita (Smith, 1893) (Agrotiphila) *[10866]*

Euxoa ridingsiana group Lafontaine, 1987

93 3477 E. macrodentata Hardwick, 1965 (Euxoa) 10859
93 3478 E. manitobana McDunnough, 1925 (Euxoa) 10863
93 3479 E. montana (Morrison, 1875) (Agrotis) 10856
rigida (Smith, 1891) (Agrotiphila)
93 3480 E. perolivalis (Smith, 1905) (Rhizagrotis) 10860
93 3481 E. perpolita (Morrison, 1876) (Agrotis) 10865
criddlei Smith, 1908 (Euxoa)
exculta (Smith, 1900) (Carneades)
93 3482 E. taura Smith, 1905 (Euxoa) 10857
cooki McDunnough, 1925 (Euxoa) *[10858]*
orbicularis (Smith, 1888) (Agrotis)
93 3483 E. flavicollis (Smith, 1888) (Agrotis) 10864
93 3484 E. maimes (Smith, 1903) (Carneades) [NEW]
93 3485 E. ridingsiana (Grote, 1875) (Agrotis) 10861

Euxoa wilsoni group Lafontaine, 1987

93 3486 E. wilsoni (Grote, 1873) (Agrotis) 10867
specialis (Grote, 1874) (Agrotis)
vilsoni; Hampson, 1903 (Euxoa) emend.
93 3487 E. riversii (Dyar, 1903) (Carneades) 10868

Genus FELTIA Walker, 1856
ID INFO: Lafontaine (2004).

Subgenus TRICHOSILIA Hampson, 1918

93 3488 F. mollis (Walker, [1857]) (Agrotis) 10644
fernaldi (Morrison, 1875) (Agrotis)
93 3489 F. nigrita (Graeser, 1892) (Agrotis) H [NEW]
acarnea (Smith, 1905) (Noctua) *[10698]*
93 3490 F. woodiana (Lafontaine, 1986) (Trichosilia) [NEW]
93 3491 F. troubridgei Lafontaine, 2004 (Feltia) [NEW]
93 3492 F. boreana (Lafontaine, 1986) (Trichosilia) [NEW]
93 3493 F. beringiana (Lafontaine & Kononenko, 1986) (Trichosilia) H [NEW]
93 3494 F. manifesta (Morrison, 1875) (Agrotis) 10666
impingens (Dyar, 1920) (Episilia)
93 3495 F. geniculata (Grote & Robinson, 1868) (Agrotis) 10680
93 3496 F. floridensis Lafontaine, 2004 (Feltia) [NEW]
93 3497 F. austrina (Lafontaine, 1986) (Trichosilia) [NEW]

Subgenus FELTIA Walker, 1856

93 3498 F. jaculifera (Guenée, 1852) (Agrotis) 10670
ducens Walker, 1856 (Feltia)
edentata Smith, 1902 (Feltia) *[10679]*
hudsoni; Franclemont & Todd, 1983 (Feltia) emend. *[10671]*
hudsonii Smith, 1903 (Feltia)
radiata Smith, 1891 (Feltia)
93 3499 F. inyoca Lafontaine, 2004 (Feltia) [NEW]
93 3500 F. evanidalis (Grote, 1878) (Agrotis) 10672
californiae McDunnough, 1939 (Feltia) *[10673]*
93 3501 F. subgothica (Haworth, 1809) (Noctua) 10674
93 3502 F. tricosa (Lintner, 1874) (Agrotis) 10675
pectinicornis Smith, 1890 (Feltia) *[10677]*
subpallida McDunnough, 1932 (Feltia) *[10678]*
93 3503 F. herilis (Grote, 1873) (Agrotis) 10676
93 3504 F. subterranea (Fabricius, 1794) (Noctua) 10664
annexa (Treitschke, 1825) (Agrotis)
anteposita (Guenée, 1852) (Agrotis)
decernens (Walker, [1857]) (Agrotis)
interferens (Walker, 1858) (Agrotis)
interposita (Maassen, 1890) (Agrotis)
lutaea (Druce, 1889) (Xylina)
lutescens (Blanchard, 1852) (Noctua)
lytaea (Druce, 1889) (Xylina)
93 3505 F. repleta (Walker, 1857) (Agrotis) 10665

Genus AGROTIS Ochsenheimer, 1816
ID INFO: Lafontaine (2004).
AGRONOMA Hübner, 1821
BRACHYPTERAGROTIS Viette, 1959
COMOPHORUS Alphéraky, 1887
CRASSAGROTIS Beck, 1992
ELEGARDA Walker, 1865
EXAGROTIS Beck, 1996
GEORYX Hübner, 1821
HERMONASSOIDES Strand, 1915
LEUCAGROTIS Beck, 1992
LYCOPHORUS Staudinger, 1901
MESEMBREUXOA Hampson, 1903
MILITAGROTIS Beck, 1992
NEOSEMA Rebel, 1907
NOCTUA Boisduval, 1829
ONYCHAGROTIS Hampson, 1903
PARORAGROTIS; Dod, 1910 missp.
POROSAGROTIS Smith, 1890
POWELLINIA Oberthür, 1912
PSAMMOPHILA Stephens, 1850
PUTAGROTIS Beck, 1992
RIPAGROTIS Beck, 1996
SCHAWAGROTIS Beck, 1996
SCOTIA Hübner, 1821
SPINAGROTIS Beck, 1996
STRIAGROTIS Beck, 1996
TETRAPYRGIA Walker, 1865

93 3506 A. vetusta (Walker, 1856) (Mythimna) 10641
catenuloides (Smith, 1910) (Porosagrotis)
muraenula Grote & Robinson, 1868 (Agrotis)
mutata (Barnes & Benjamin, 1924) (Porosagrotis)
93 3507 A. daedalus (Smith, 1890) (Porosagrotis) 10642
93 3508 A. striata Lafontaine, 2004 (Agrotis) [NEW]
93 3509 A. rileyana Morrison, 1875 (Agrotis) 10669
93 3510 A. ruta (Eversmann, 1851) (Xylina) H [NEW]
patula Walker, 1857 (Agrotis) *[10647]*
septentrionalis Möschler, 1862 (Agrotis)
subinformis (Bryk, 1941) (Feltia)
93 3511 A. longicornis Lafontaine & Troubridge, 2004 (Agrotis) [NEW]
93 3512 A. orthogonia Morrison, 1876 (Agrotis) 10645
delorata (Smith, 1908) (Porosagrotis)
duae (Barnes & Benjamin, 1926) (Porosagrotis)
orthogonoides McDunnough, 1946 (Agrotis) *[10646]*
93 3513 A. kingi McDunnough, 1932 (Agrotis) 10649
93 3514 A. robustior (Smith, 1899) (Feltia) 10650
93 3515 A. gladiaria Morrison, 1875 (Agrotis) 10648
morrisoniana Morrison, 1875 (Agrotis)
morrisoniana Riley, 1875 (Agrotis)
93 3516 A. venerabilis Walker, [1857] (Agrotis) 10651
arida (Cockerell, 1913) (Feltia)
93 3517 A. vancouverensis Grote, 1873 (Agrotis) 10652
aeneipennis Grote, 1876 (Agrotis) *[10657]*
agilis Grote, 1888 (Agrotis)
atha Strecker, 1898 (Agrotis) *[10656]*
clodiana Grote, 1881 (Agrotis)
dentilinea Smith, 1890 (Agrotis)
hortulana Morrison, 1875 (Agrotis)
semiclarata Grote, 1881 (Agrotis)
93 3518 A. gravis Grote, 1874 (Agrotis) 10653
vapularis Grote, 1876 (Agrotis)
93 3519 A. stigmosa Morrison, 1875 (Agrotis) 10658
93 3520 A. arenarius Neil, 1983 (Agrotis) [NEW]
93 3521 A. volubilis Harvey, 1874 (Agrotis) 10659
93 3522 A. obliqua (Smith, 1903) (Feltia) 10660
fumipennis McDunnough, 1932 (Agrotis)
musa (Smith, 1910) (Feltia) *[10655]*
93 3523 A. antica Crabo & Lafontaine, 2004 (Agrotis) [NEW]
93 3524 A. buchholzi (Barnes & Benjamin, 1929) (Feltia) 10654

carolina Schweitzer & McCabe, 2004 (Agrotis)

93 3525 A. haesitans Walker, [1857] (Agrotis) 10668

93 3526 A. malefida Guenée, 1852 (Agrotis) 10661
consueta Walker, 1857 (Agrotis)
inspinosa Guenée, 1852 (Agrotis)
robusta (Blanchard, 1852) (Noctua)
submuscosa Herrich-Schäffer, 1868 (Agrotis)

93 3527 A. apicalis Herrich-Schäffer, 1868 (Agrotis) 10662

93 3528 A. ipsilon (Hufnagel, 1766) (Phalaena) 10663
aureolum Schaus, 1898 (Agrotis)
bipars Walker, 1857 (Agrotis)
frivola Wallengren, 1860 (Agrotis)
idonea (Cramer, [1780]) (Phalaena)
pepoli Bertolini, 1874 (Agrotis)
spinifera (Villers, 1789) (Phalaena)
spinula (Donovan, 1801) (Phalaena)
spinula (Esper, 1786) (Bombyx)
suffusa ([Denis & Schiffermüller], 1775) (Noctua)
telifera Harris, 1841 (Agrotis)
ypsilon; (Rottemburg, 1776) (Noctua) emend.

93 3528.1 A. texanus Grote, 1864 (Agrotis) [NEW]
NOTE: Omitted by Franclemont & Todd (in Hodges et al. 1983); TL: TX.

93 3528.2E A. trux (Hübner, [1824]) (Noctua) EXCL. [NEW]
obesula Smith, 1888 (Agrotis) (excl.)
NOTE: The synonym *obesula* was nominally described from MT, but the reported origin of the type specimen was deemed erroneous by Hardwick (1968). "True" *A. trux* is a European species that has not otherwise been reported from NA.

Subtribe NOCTUINA Latreille, 1809

ID INFO: Lafontaine (1998).

AXYLIA GROUP OF GENERA Schmidt, 2023

NOTE: This group of genera was defined as the subtribe Axyliina by Fibiger & Lafontaine (2005), and is here applied in that sense (not in the sense of the *Axylia* group of Fibiger & Lafontaine 2005). The reasons for this are discussed under the *Austrandesia* genus group (Noctuinae: Noctuini).

Genus OCHROPLEURA Hübner, 1821

93 3529 O. implecta Lafontaine, 1998 (Ochropleura) [NEW]
plecta of authors; (not Linnaeus, 1761) (Phalaena) misappl. *[10891]*

NOCTUA GROUP OF GENERA Schmidt, 2023

NOTE: This group of genera was defined as the subtribe Noctuina by Fibiger & Lafontaine (2005), one of two constituent subtribes of the Noctuini (Noctuina in the current sense). The reasons for the change in taxonomic rank are discussed under the *Austrandesia* genus group (Noctuinae: Noctuini).

Genus DIARSIA Hübner, 1821
BRUNNARSIA Beck, 1996
MENARSIA Beck, 1996
OXIRA Walker, 1865
RUBARSIA Beck, 1996

93 3530 D. esurialis (Grote, 1881) (Agrotis) 10920
uclueletei (Barnes & Benjamin, 1929) (Triphaena)

93 3531 D. calgary (Smith, 1898) (Noctua) 10916

93 3532 D. dislocata (Smith, 1904) (Noctua) 10918

93 3533 D. jucunda (Walker, [1857]) (Graphiphora) 10919
eriensis (Grote, 1878) (Agrotis)
hospitalis (Grote, 1882) (Agrotis)
perconflua (Grote, 1876) (Agrotis)

93 3534 D. rubifera (Grote, 1875) (Agrotis) 10917
cynica (Smith, 1898) (Noctua)
perumbrosa (Dyar, 1904) (Noctua)
perversa (Strand, 1916) (Agrotis)
umbrosa (Dyar, 1904) (Noctua)

93 3535 D. rosaria (Grote, 1878) (Agrotis) 10921
ssp. a. rosaria (Grote, 1878) (Agrotis)
pseudorosaria Hardwick, 1950 (Diarsia)
ssp. b. freemani Hardwick, 1950 (Diarsia) [10922]

Genus CERASTIS Ochsenheimer, 1816

Subgenus CERASTIS Ochsenheimer, 1816
FACASTIS Beck, 1992
GYPSITEA Tams, 1939
MATUTA Grote, 1874
SORA Heinemann, 1859

93 3536 C. tenebrifera (Walker, 1865) (Hadena) 10994
catherina (Grote, 1874) (Matuta)
manifestolabes (Morrison, 1875) (Agrotis)

Subgenus METALEPSIS Grote, 1875

93 3537 C. fishii (Grote, 1878) (Agrotis) 10997
heinrichi (Barnes & Benjamin, 1929) (Epipsilia)

93 3538 C. cornuta (Grote, 1874) (Pachnobia) 10995

93 3539 C. robertsoni Lafontaine & Crabo, 1997 (Cerastis) [NEW]

93 3540 C. enigmatica Lafontaine & Crabo, 1997 (Cerastis) [NEW]
NOTE: Prior to its description in 1997, this species was treated within the concept of *C. cornuta*.

93 3541 C. gloriosa Crabo & Lafontaine, 1997 (Cerastis) [NEW]

93 3542 C. salicarum (Walker, 1857) (Hydraecia) 10996
claviformis (Morrison, 1875) (Agrotis)
orilliana (Grote, 1875) (Pachnobia)

Genus CHOEPHORA Grote & Robinson, 1868

93 3543 C. fungorum Grote & Robinson, 1868 (Choephora) 10998

Genus PARADIARSIA McDunnough, 1929

93 3544 P. littoralis (Packard, 1867) (Agrotis) 10992
ferruginoides (Smith, 1890) (Pachnobia)
pectinata (Grote, 1874) (Pseudorthosia)

Genus HEMIPACHNOBIA McDunnough, 1929

93 3545 H. subporphyrea (Walker, 1858) (Mythimna) 10993

93 3546 H. monochromatea (Morrison, 1875) (Agrotis) [NEW]

Genus LYCOPHOTIA Hübner, 1821
HEPTAGROTIS McDunnough, 1929
PAUCGRAPHIA Beck, 1992
SCOTOPHILA Stephens, 1829
VIOLAPHOTIA Beck, 1992

93 3547 L. phyllophora (Grote, 1874) (Agrotis) 11010

Genus RHYACIA Hübner, 1821
ANTIRHYACIA Beck, 1996
EPIPSILIA Hübner, 1821
EPISILIA; Hampson, 1903 missp.

93 3548 R. quadrangula (Zetterstedt, 1839) (Agrotis) H 10925
mus (Alphéraky, 1882) (Agrotis)
pallidifrons (Hampson, 1903) (Euxoa)
punctinotata Warren, 1914 (Rhyacia)
rava (Herrich-Schäffer, 1852) (Agrotis)
umbratus (Packard, 1867) (Agrotis)

93 3549 R. clemens (Smith, 1890) (Agrotis) [NEW]

Genus CHERSOTIS Boisduval, 1840
ALPSOTIS Beck, 1992
CUPREOSOTIS Beck, 1992
CYREBIA Guenée, 1852
ELESOTIS Beck, 1992
FIMBRIOSOTIS Beck, 1992
LARIXSOTIS Beck, 1992
MARGASOTIS Beck, 1992
MULTSOTIS Beck, 1992

93 3550 C. juncta (Grote, 1878) (Agrotis) H 11003
patefacta (Smith, 1895) (Noctua)

Genus NOCTUA Linnaeus, 1758
EUSCHESIS Hübner, [1821]
INTERNOCTUA Beck, Kobes & Ahola, 1993
LAMPRA Hübner, [1821]
LATANOCTUA Beck, Kobes & Ahola, 1993
NOCTUELLA Rafinesque, 1815
PARANOCTUA Beck, Kobes & Ahola, 1993
TRIPHAENA Ochsenheimer, 1816
XANTHOPTERA Sodoffsky, 1837

93 3551 N. pronuba (Linnaeus, 1758) (Phalaena) I [NEW]
NOTE: Introduced from Europe to NS in about 1979 (Lafontaine 1998); it rapidly expanded across much of northern NA.

connuba Hübner, 1822 (Noctua)
decolorata (Turati, 1923) (Rhyacia)
hoegei (Herrich-Schäffer, 1861) (Triphaena)
innuba (Treitschke, 1825) (Triphaena)
nigra (Krausse, 1912) (Agrotis)

93 3552 N. comes Hübner, [1813] (Noctua) I [NEW]
NOTE: Introduced from Europe to BC in about 1982, and to ON in 2006 (Lafontaine 1998).
adsequa (Treitschke, 1825) (Triphaena)
bergensis (Sparre-Schneider, 1901) (Agrotis)
curtisii (Nerwman, 1870) (Tryphaena)
griseofusca (Prout, 1904) (Triphaena)
loeberbaueri Burmann & Tarmann, 1987 (Noctua)
orbona Fabricius, 1787 (Noctua)
prosequa (Treitschke, 1825) (Triphaena)
scotophila Burmann & Tarmann, 1987 (Noctua)

Genus CRYPTOCALA Benjamin, 1921

93 3553 C. acadiensis (Bethune, 1870) (Anarta) 11012
gilvipennis (Grote, 1874) (Agrotis)

Genus SPAELOTIS Boisduval, 1840

Subgenus AMPHITROTA Warren, 1909

93 3554 S. clandestina (Harris, 1841) (Noctua) H 10926
NOTE: Recognized as Holarctic, with inclusion of the Palaearctic synonym *suecica*, by Mikkola et al. (1991).
fehrenbachi Boursin, 1963 (Spaelotis)
itelmena (Bryk, 1941) (Amphitrota)
nigriceps (Walker, 1865) (Mamestra)
suecica (Aurivillius, 1891) (Agrotis)
unicolor (Walker, 1856) (Mamestra)

93 3555 S. bicava Lafontaine, 1998 (Spaelotis) [NEW]
NOTE: Prior to its description in 1998, this species was treated within the concept of *S. havilae*.

93 3556 S. unicava Lafontaine, 1998 (Spaelotis) [NEW]

93 3557 S. havilae (Grote, 1881) (Agrotis) 10927

93 3558 S. velicava Lafontaine, 1998 (Spaelotis) [NEW]

93 3559 S. quadricava Lafontaine, 1998 (Spaelotis) [NEW]

Genus EUROIS Hübner, 1821

93 3560 E. occulta (Linnaeus, 1758) (Phalaena) H 10929
ssp. a. occulta (Linnaeus, 1758) (Phalaena)
extricata (Zetterstedt, 1839) (Hadena)
fumea Corti & Draudt, 1933 (Eurois)
ichinosawana (Matsumura, 1931) (Rhyacia)
passetii (Thierry-Mieg, 1886) (Agrotis)
prolixa (Zetterstedt, 1839) (Polia)
puncticosta (Zetterstedt, 1839) (Polia)
roseovirgata (Dannehl, 1929) (Agrotis)
tibetica Corti & Draudt, 1933 (Eurois)
ssp. b. implicata (Lefèbvre, 1836) (Hadena)

93 3561 E. astricta Morrison, 1875 (Eurois) 10930
ssp. a. astricta Morrison, 1875 (Eurois)
ssp. b. subjugata (Dyar, 1904) (Peridroma)
ssp. c. elenae (Barnes & Benjamin, 1926) (Caradrina)

93 3562 E. nigra (Smith, 1892) (Peridroma) 10931
ssp. a. nigra (Smith, 1892) (Peridroma)
ssp. b. argni (Barnes & Benjamin, 1927) (Caradrina)

Genus GRAPHIPHORA Ochsenheimer, 1816
PSEUDOSPAELOTIS McDunnough, 1929

93 3563 G. augur (Fabricius, 1775) (Noctua) H [NEW]
abdita (Joannis, 1891) (Agrotis)
assimulans (Borkhausen, 1792) (Phalaena)
grandis (Speyer, 1875) (Agrotis)
haruspica (Grote, 1875) (Agrotis) [10928]
hippophaes (Geyer, 1832) (Noctua)
inopinatus (Smith, 1898) (Noctua)
omega (Esper, 1788) (Phalaena)
sierrae (Harvey, 1876) (Agrotis)
tobolskensis (Sheljuzhko, 1929) (Rhyacia)
unimacula (Morrison, 1875) (Agrotis)

Genus ANAPLECTOIDES McDunnough, 1929

93 3564 A. prasina ([Denis & Schiffermüller], 1775) (Noctua) H 11000
albimacula (Hormuzaki, 1894) (Agrotis)
egregia (Esper, 1787) (Noctua)
herbacea (Guenée, 1852) (Polyphaenis)
herbida ([Denis & Schiffermüller], 1775) (Noctua)
jaspidea (Borkhausen, 1792) (Phalaena)
mixta (Haworth, 1809) (Noctua)

93 3565 A. pressus (Grote, 1874) (Eurois) 11001
abbea (Smith, 1908) (Aplectoides)
discolor (Smith, 1905) (Aplectoides)
fales (Smith, 1905) (Aplectoides)

93 3566 A. brunneomedia McDunnough, 1946 (Anaplectoides) 11002
intermedia Forbes, 1954 (Anaplectoides) nom. nud.

Genus APLECTOIDES Butler, 1878

93 3567 A. condita (Guenée, 1852) (Aplecta) 10999
trabilis (Grote, 1877) (Agrotis)

Genus EUERETAGROTIS Smith, 1890

93 3568 E. sigmoides (Guenée, 1852) (Noctua) 11007

93 3569 E. perattentus (Grote, 1876) (Agrotis) 11008
inattenta Smith, 1903 (Eueretagrotis)

93 3570 E. attentus (Grote, 1874) (Agrotis) 11009

Genus XESTIA Hübner, 1818

Subgenus XESTIA Hübner, 1818
AMATHES Hübner, 1821
CALOXESTIA Beck, 1996
CASTANASTA Beck, 1996
ERICATHIA Beck, 1996
HEMIGRAPHIPHORA McDunnough, 1929
HIPTELIA Guenée, 1852
HYPOXESTIA Hampson, 1903
LYTAEA Stephens, 1829
MONTICOLLIA Beck, 1996
PALAEAMATHES Boursin, 1954
PALKERMESES Beck, 1996
PARAMATHES Boursin, 1954
SEGETIA Stephens, 1829

Xestia baja group Lafontaine, 1998

93 3571 X. xanthographa ([Denis & Schiffermüller], 1775) (Noctua) I [NEW]
NOTE: Introduced from the Palaearctic, first found in NA in QC in 1907 (Lafontaine & Troubridge 1998; Zahiri et al. 2017).
algirica (Corti & Draudt, 1933) (Rhyacia)
almohada (Wagner, 1918) (Agrotis)
budensis (Freyer, 1838) (Agrotis)
elutior (Alphéraky, 1887) (Agrotis)
faroulti (Rothschild, 1920) (Epipsilia)
lepida (Constantinio, 1922) (Agrotis)
praecipuina (Rothschild, 1914) (Episilia)
tetragona (Haworth, 1809) (Noctua)
trumani (Smith, 1903) (Noctua) [10945]

93 3572 X. smithii (Snellen, 1896) (Agrotis) 10944
baja of authors; (not [Denis & Schiffermüller], 1775) (Noctua) misappl.

93 3573 X. normanianus (Grote, 1874) (Agrotis) 10943
obtusa (Speyer, 1875) (Agrotis)

93 3574 X. conchis (Grote, 1879) (Agrotis) 10946

93 3575 X. oblata (Morrison, 1875) (Agrotis) 10947
hilliana (Harvey, 1878) (Agrotis)
streckeri (Barnes & Benjamin, 1927) (Triphaena)

Xestia cinerascens group Lafontaine, 1998

93 3576 X. cinerascens (Smith, 1891) (Pachnobia) 10949

Xestia plebeia group Lafontaine, 1998

93 3577 X. plebeia (Smith, 1898) (Noctua) 11011
bajoides (Barnes & Benjamin, 1929) (Triphaena)

Xestia mustelina group Lafontaine, 1998

93 3578 X. mustelina (Smith, 1900) (Hadena) 10971
occidens (Hampson, 1913) (Aplectoides)

Xestia vernilis group Lafontaine, 1998

93 3579 X. vernilis (Grote, 1879) (Agrotis) 10973
93 3580 X. verniloides Lafontaine, 1998 (Xestia) [NEW]
93 3581 X. infimatis (Grote, 1880) (Agrotis) 10972
dernarius (Smith, 1907) (Setagrotis)
filiis (Smith, 1907) (Setagrotis)
93 3582 X. finatimis Lafontaine, 1998 (Xestia) [NEW]

Xestia elimata group Lafontaine, 1998

93 3583 X. elimata (Guenée, 1852) (Noctua) 10967
grisatra (Smith, 1907) (Semiophora)
93 3584 X. badicollis (Grote, 1873) (Ammoconia) 10968
93 3585 X. praevia Lafontaine, 1998 (Xestia) [NEW]
93 3586 X. dilucida (Morrison, 1875) (Agrotis) 10969
atoma (Smith, 1907) (Semiophora)
janualis (Grote, 1878) (Agrotis)
youngii (Smith, 1902) (Semiophora) *[10970]*

Subgenus MEGASEMA Hübner, 1821
AGROTIMORPHA Barnes & Benjamin, 1929
AGROTIPHILA Grote, 1875
ASHWORTHIA Beck, 1996
CENIGRIA Beck, 1996
MEGARHOMBA Beck, 1996

93 3587 X. bolteri (Smith, 1898) (Noctua) 10941
93 3588 X. c-nigrum (Linnaeus, 1758) (Phalaena) H [NEW]
adela Franclemont, 1980 (Xestia) *[10942]*
degenerata (Staudinger, 1889) (Agrotis)
depravata (Bang-Haas, 1912) (Agrotis)
ignorata (Eitschberger, 1972) (Amathes)
kurilana (Bryk, 1942) (Diarsia)
nunatrum (Esper, 1786) (Bombyx)
singularis (Esper, 1786) (Bombyx)
93 3589 X. dolosa Franclemont, 1980 (Xestia) 10942.1
93 3590 X. wockei (Möschler, 1862) (Agrotis) H 10937
ssp. a. wockei (Möschler, 1862) (Agrotis)
aldani (Herz, 1903) (Agrotis)
helenae (Corti & Draudt, 1933) (Anomogyna)
tundrana (Bang-Haas, 1912) (Agrotis)
veruta (Corti & Draudt, 1933) (Anomogyna)
voccei; (Hampson, 1903) (Epipsilia) emend.
ssp. b. troubridgei Lafontaine, 1998 (Xestia)
93 3591 X. scropulana (Morrison, 1875) (Agrotis) 10938
moeschleri (Bang-Haas, 1910) (Agrotis)
93 3592 X. staudingeri (Möschler, 1862) (Agrotis) H 10980
93 3593 X. inuitica Lafontaine & Hensel, 1998 (Xestia) [NEW]
93 3594 X. colorado (Smith, 1891) (Agrotiphila) 10982
93 3595 X. maculata (Smith, 1893) (Agrotiphila) 10981
maculate; Smith, 1984 (Xestia) missp.

Subgenus PACHNOBIA Guenée, 1852
ANOMAGYNA; Benjamin, 1933 missp.
ANOMOGYNA Staudinger, 1871
ARCHANARTA Barnes & Benjamin, 1929
BARROVIA Barnes & McDunnough, 1916
CALANOMOGYNA Beck, 1996
EPIPSILIAMORPHA Barnes & Benjamin, 1929
HYPTIOXESTA Rebel, 1901
KNAPPIA Nye, 1975
LANKIALAIA Beck, 1996
LENA Herz, 1903
LOREZIA Beck, 1996
PERANOMOGYNA Beck, 1996
PLATAGROTIS Smith, 1890
PTEROSCIA Morrison, 1874
SHOYENIA Aurivillius, 1883
SYNANOMOGYNA Beck, 1996
XENOPACHNOBIA Beck, 1996

Xestia speciosa group Lafontaine, 1998

93 3596 X. speciosa (Hübner, [1813]) (Noctua) extralim. H 10959
ssp. a. aklavicensis (Benjamin, 1933) (Anomogyna) [10961]
NOTE: Lafontaine & Schmidt (2010) list *aklavicensis* and *apropitia* as the NA subspecies, "following Lafontaine (1998)", but in the latter, *arctica* (with synonym *aklavicensis*) and *apropitia* are listed as the NA subspecies. The current arrangement, with *aklavicensis* as the northern NA subspecies, follows Mikkola et al. (1991).
ssp. b. apropitia (Benjamin, 1933) (Anomogyna) [10960]
apropritia; Lafontaine & Schmidt, 2010 (Xestia) missp.
ssp. c. arctica (Zetterstedt, 1839) (Hadena) (excl.)
NOTE: The listing of "*Hadena arctica* Biosduval" by Dyar (1904) and others refers to *X. speciosa*. The taxon *arctica* is a Palaearctic subspecies.
93 3597 X. mixta (Walker, 1856) (Acronycta) [NEW]
livalis (Smith, 1910) (Aplectoides)

Xestia alpicola group Lafontaine, 1998

93 3598 X. imperita (Hübner, [1831]) (Ogygia) 10965
arufa (Smith, 1905) (Aplectoides)
comparata (Möschler, 1862) (Agrotis)
daisetsuzana (Matsumura, 1927) (Euxoa)
discitincta (Walker, 1856) (Bryophila)
saxigena (Morrison, 1875) (Agrotis)
93 3599 X. albuncula (Eversmann, 1851) (Cymatophora) H [NEW]
arufoides (Benjamin, 1933) (Anomogyna)
mallochi (Benjamin, 1933) (Anomagyna) *[10966]*
stejnigeri (Benjamin, 1933) (Anomogyna)

Xestia tecta group Lafontaine, 1998

93 3600 X. atrata (Morrison, 1875) (Pteroscia) H 10957
ssp. a. atrata (Morrison, 1875) (Pteroscia)
ssp. b. yukona (McDunnough, 1921) (Pteroscia)
93 3601 X. ursae (McDunnough, 1940) (Anomogyna) H [NEW]
93 3602 X. tecta (Hübner, [1808]) (Noctua) H 10936
ssp. a. tecta (Hübner, [1808]) (Noctua)
ampla (Hübner, 1809) (Noctua)
nolens (Corti & Draudt, 1933) (Anomogyna)
ssp. b. tectoides (Corti, 1926) (Agrotis)
roosta (Smith, 1903) (Pachnobia)
93 3603 X. kolymae (Herz, 1903) (Agrotis) H [NEW]

Xestia okakensis group Lafontaine, 1998

93 3604 X. okakensis (Packard, 1867) (Agrotis) H 10939
ssp. a. okakensis (Packard, 1867) (Agrotis)
cinerea (Hampson, 1903) (Episilia)
ocacensis; (Hampson, 1903) (Episilia) emend.
ssp. b. morandi (Benjamin, 1934) (Pachnobia) [10940]

Xestia lorezi group Lafontaine, 1998

93 3605 X. lorezi (Staudinger, 1891) (Hiptelia) extralim. H [NEW]
ssp. a. ogilviana Lafontaine, 1987 (Xestia)

Xestia sincera group Lafontaine, 1998

93 3606 X. perquiritata (Morrison, 1875) (Polia) 10962
ssp. a. perquiritata (Morrison, 1875) (Polia)
baileyana (Grote, 1880) (Agrotis)
beddeci; (Hampson, 1913) (Aplectoides) orig. missp.
beddeki Hampson, 1913 (Xestia) emend.
clarkei (Benjamin, 1933) (Anomogyna)
ssp. b. partita (McDunnough, 1921) (Anomogyna)
ssp. c. orca Crabo & Hammond, 2013 (Xestia)
93 3607 X. fabulosa (Ferguson, 1965) (Anomogyna) 10958
sincera of authors; (not Herrich-Schäffer, 1851) (Agrotis) misappl.

Xestia rhaetica group Lafontaine, 1998

93 3608 X. homogena (McDunnough, 1921) (Anomogyna) 10964
ssp. a. homogena (McDunnough, 1921) (Anomogyna)
ssp. b. conditoides (Benjamin, 1933) (Anomogyna)
93 3608.1E X. rhaetica (Staudinger, 1871) (Agrotis) EXCL. [NEW]
NOTE: Reported from NA by Poole & Gentili (1996), but not considered part of the NA fauna by Lafontaine (1998).

Xestia alaskae group Lafontaine, 1998

93 3609 X. intermedia (Kononenko, 1981) (Agrotiphila) H [NEW]
93 3610 X. thula Lafontaine & Kononenko, 1983 (Xestia) H [NEW]
93 3611 X. alaskae (Grote, 1876) (Agrotis) H 10983

alascae; (Hampson, 1903) (Agrotiphila) emend.
singularis (Kononenko, 1981) (Agrotiphila)

93 3612 X. aequaeva (Benjamin, 1934) (Epipsiliamorpha) 10984
ssp. a. aequaeva (Benjamin, 1934) (Epipsiliamorpha)
ssp. b. glaucina Lafontaine & Mikkola, 1996 (Xestia)

Xestia quieta group Lafontaine, 1998

93 3613 X. quieta (Hübner, [1813]) (Noctua) H 10985
constricta (Walker, 1857) (Anarta)
rigida (Walker, 1857) (Anarta)
schoenherri (Zetterstedt, 1839) (Anarta)

93 3614 X. bryanti (Benjamin, 1933) (Archanarta) 10986
acraea (Benjamin, 1934) (Archanarta) *[10987]*

93 3615 X. lyngei (Rebel, 1923) (Agrotiphila) H [NEW]
ssp. a. lyngei (Rebel, 1923) (Agrotiphila)

93 3616 X. woodi Lafontaine & Kononenko, 1983 (Xestia) [NEW]

93 3617 X. fergusoni Lafontaine, 1983 (Xestia) H [NEW]

93 3618 X. liquidaria (Eversmann, 1848) (Amphidasis) H [NEW]
arctica (Aurivillius, 1883) (Schoyenia)
fasciata (Skinner, 1902) (Psychophora) *[10934]*
unifasciata (Ménétriés, 1851) (Amphidasis)

Xestia laetabilis group Lafontaine, 1998

93 3619 X. lupa Lafontaine & Mikkola, 1998 (Xestia) [NEW]
laetabilis of authors; (not Zetterstedt, 1839) (Hadena) misappl. *[10963]*

Xestia penthima group Lafontaine, 1998

93 3620 X. laxa Lafontaine & Mikkola, 1998 (Xestia) [NEW]

Genus PARABARROVIA Gibson, 1920

93 3621 P. keelei Gibson, 1920 (Parabarrovia) H 10935

93 3622 P. omilaki Lafontaine, 1998 (Parabarrovia) [NEW]

93 3623 P. ogilviensis Lafontaine, 1988 (Parabarrovia) [NEW]

Genus COENOPHILA Stephens, 1850

93 3624 C. opacifrons (Grote, 1878) (Agrotis) [NEW]
decipiens (Warnecke, 1924) (Agrotis)
furushonis (Matsumura, 1925) (Aplectoides)
kieferi (Rebel, 1912) (Agrotis)
latefasciata (Hoyningen-Huene, 1901) ([unknown])
rubrifera (Warnecke, 1931) (Agrotis)
subcaerulea (Staudinger, 1871) (Agrotis)
subrosea of authors; (not Stephens, 1829) (Graphiphora) misappl. *[10988]*

Genus PROGNORISMA Lafontaine, 1998

93 3625 P. substrigata (Smith, 1895) (Noctua) 10948

Genus AGNORISMA Lafontaine, 1998

93 3626 A. badinodis (Grote, 1874) (Agrotis) 10955
hero (Morrison, 1876) (Agrotis) *[11005]*

93 3627 A. bugrai (Koçak, 1983) (Xestia) [NEW]
NOTE: Replacement name by Koçak (1983) for *Agrotis collaris* Grote & Robinson, 1868), a primary junior homonym of *Agrotis collaris* Wallengren, 1856).
collaris (Grote & Robinson, 1868) (Agrotis) preocc. *[10954]*

93 3628 A. bollii (Grote, 1881) (Agrotis) 10956
hilaris (Grote, 1880) (Agrotis)

Genus PSEUDOHERMONASSA Varga, 1990

93 3629 P. bicarnea (Guenée, 1852) (Noctua) 10950
plagiata (Walker, 1865) (Mamestra)

93 3630 P. tenuicula (Morrison, 1875) (Agrotis) 10951
treati (Grote, 1875) (Agrotis)

93 3631 P. flavotincta (Smith, 1892) (Noctua) 10952
evelynae (Barnes & Benjamin, 1926) (Triphaena)

93 3632 P. ononensis (Bremer, 1861) (Agrotis) H [NEW]
scaramangoides (Barnes & Benjamin, 1926) (Agrotis) *[10953]*

Genus SETAGROTIS Smith, 1890

93 3633 S. pallidicollis (Grote, 1880) (Agrotis) [NEW]
cinereicollis (Grote, 1876) (Agrotis) *[10975]*
congrua (Smith, 1890) (Agrotis)
planifrons (Smith, 1890) (Agrotis) *[10974]*

93 3634 S. vocalis (Grote, 1879) (Agrotis) [NEW]
invenusta (Grote, 1883) (Agrotis)

93 3635 S. radiola (Hampson, 1903) (Lycophotia) [NEW]
radiatus Smith, 1900 (Setagrotis) preocc. *[10976]*

Genus TESAGROTIS Lafontaine, 1998

93 3636 T. atrifrons (Grote, 1873) (Agrotis) 10977

93 3637 T. piscipellis (Grote, 1878) (Agrotis) 10978
cinibarina (Hill, 1924) (Euxoa)
exculpatrix (Dyar, 1907) (Noctua)

93 3638 T. corrodera (Smith, 1907) (Noctua) [NEW]

93 3639 T. amia (Grote, 1878) (Noctua) [NEW]
fortiter (Barnes & McDunnough, 1918) (Agrotis) *[10979]*

Genus ADELPHAGROTIS Smith, 1890

93 3640 A. stellaris (Grote, 1880) (Agrotis) 10989
quarta (Grote, 1881) (Agrotis) *[10990]*

93 3641 A. indeterminata (Walker, 1865) (Xylina) 10991
innotabilis (Grote, 1874) (Agrotis)
washingtoniensis (Grote, 1881) (Agrotis)

93 3642 A. carissima (Harvey, 1875) (Agrotis) [NEW]

Genus PARABAGROTIS Lafontaine, 1998

93 3643 P. formalis (Grote, 1874) (Agrotis) [NEW]
binominalis (Smith, 1888) (Agrotis)
faculoides (Strand, 1916) (Triphaena)
morrisonistigma (Grote, 1876) (Agrotis)
observabilis (Grote, 1875) (Agrotis)

93 3644 P. insularis (Grote, 1876) (Agrotis) 11048
emarginata (Grote, 1876) (Agrotis)
facula (Grote, 1876) (Agrotis)
faculana (Strand, 1916) (Triphaena)
inelegans (Smith, 1890) (Agrotis)
meta (Smith, 1903) (Rhynchagrotis)
niger (Smith, 1903) (Rhynchagrotis)

93 3645 P. cupidissima (Grote, 1875) (Agrotis) [NEW]
distracta (Smith, 1890) (Rhynchagrotis)
laetula (Grote, 1876) (Agrotis)

93 3646 P. exsertistigma (Morrison, 1875) (Agrotis) [NEW]
crenulata (Smith, 1888) (Agrotis)
exertistigma; [various, no date] (Parabagrotis) missp. *[11047]*

93 3647 P. sulinaris Lafontaine, 1998 (Parabagrotis) [NEW]
confusa (Smith, 1888) (Agrotis)
faculella (Strand, 1916) (Triphaena)

Genus PROTOLAMPRA McDunnough, 1929

93 3648 P. rufipectus (Morrison, 1875) (Agrotis) 11004

93 3649 P. brunneicollis (Grote, 1865) (Noctua) 11006

Genus ABAGROTIS Smith, 1890
ID INFO: Lafontaine (1998); also Goldstein & Nelson (2017).
RHYNCHAGROTIS Smith, 1890

Abagrotis erratica group Lafontaine, 1998

93 3650 A. erratica (Smith, 1890) (Agrotis) 11013
ornatus Smith, 1903 (Abagrotis)

93 3651 A. kirkwoodi Buckett, 1968 (Abagrotis) 11014

93 3652 A. alcandola (Smith, 1908) (Rhynchagrotis) 11015
tristis Barnes & McDunnough, 1912 (Abagrotis)

Abagrotis trigona group Lafontaine, 1998

93 3653 A. trigona (Smith, 1893) (Rhynchagrotis) 11018
sambo (Smith, 1908) (Rhynchagrotis)

Abagrotis apposita group Lafontaine, 1998

93 3654 A. apposita (Grote, 1878) (Agrotis) 11037

Abagrotis bimarginalis group Lafontaine, 1998

9383655 A. vittifrons (Grote, 1864) (Noctua) 11016
9383656 A. bimarginalis (Grote, 1883) (Agrotis) 11017

Abagrotis mirabilis group Lafontaine, 1998

9383657 A. mirabilis (Grote, 1879) (Agrotis) 11019
9383658 A. rubricundis Buckett, 1968 (Abagrotis) 11020
9383659 A. glenni Buckett, 1968 (Abagrotis) 11022
9383660 A. hennei Buckett, 1968 (Abagrotis) 11023
9383661 A. striata Buckett, 1968 (Abagrotis) 11021
9383662 A. pulchrata (Blackmore, 1925) (Lampra) 11036
9383663 A. nefascia (Smith, 1908) (Rhynchagrotis) emend. 11024
crumbi Franclemont, 1955 (Abagrotis) *[11031]*
negascia; (Smith, 1908) (Rhynchagrotis) orig. missp.
9383663.1 A. benjamini Franclemont, 1955 (Abagrotis) [NEW]
9383664 A. reedi Buckett, 1969 (Abagrotis) 11040

Abagrotis discoidalis group Lafontaine, 1998

9383665 A. duanca (Smith, 1908) (Rhynchagrotis) 11039
9383666 A. nanalis (Grote, 1881) (Agrotis) 11038
mantalini (Smith, 1894) (Caradrina)
9383667 A. discoidalis (Grote, 1876) (Agrotis) 11035

Abagrotis placida group Lafontaine, 1998

9383668 A. turbulenta McDunnough, 1927 (Abagrotis) 11030
9383669 A. hermina Lafontaine, 1998 (Abagrotis) [NEW]
9383670 A. dodi McDunnough, 1927 (Abagrotis) 11042
9383671 A. dickeli Lafontaine, 1998 (Abagrotis) [NEW]
9383672 A. placida (Grote, 1876) (Agrotis) 11041
minimalis (Grote, 1879) (Agrotis)
9383673 A. alampeta Franclemont, 1967 (Abagrotis) 11025
9383674 A. petalama Lafontaine, 1998 (Abagrotis) [NEW]
9383675 A. denticulata McDunnough, 1946 (Abagrotis) 11026
9383676 A. orbis (Grote, 1876) (Agrotis) [NEW]
barnesi (Benjamin, 1921) (Lampra) *[11027]*
nevadensis (Benjamin, 1921) (Lampra)
orbitis (Strand, 1916) (Triphaena)
9383677 A. baueri McDunnough, 1949 (Abagrotis) 11028
9383678 A. variata (Grote, 1876) (Agrotis) 11032
varix (Grote, 1876) (Agrotis)
9383679 A. scopeops (Dyar, 1904) (Rhynchagrotis) 11033
tecatensis Buckett, 1968 (Abagrotis) *[11034]*

Abagrotis cupida group Lafontaine, 1998

9383680 A. alternata (Grote, 1864) (Noctua) 11029
alternatella (Strand, 1916) (Triphaena)
uniformis (Strand, 1916) (Triphaena)
9383681 A. mexicana Lafontaine, 1998 (Abagrotis) [NEW]
9383682 A. forbesi (Benjamin, 1921) (Lampra) [NEW]
9383683 A. brunneipennis (Grote, 1875) (Agrotis) [NEW]
adulta of authors; (not Guenée, 1852) (Rhynchagrotis) misappl. *[11044]*
NOTE: This is a misidentification. The name *adulta* was listed twice by Franclemont & Todd (in Hodges et al. 1983); here in error, and as *Sericaglaea adulta* (P-No. 932594.5e); MONA No. 9940.
9383684 A. cryptica Lafontaine, 1998 (Abagrotis) [NEW]
9383685 A. cupida (Grote, 1865) (Noctua) 11043
velata (Walker, 1865) (Graphiphora)
9383686 A. magnicupida Lafontaine, 1998 (Abagrotis) [NEW]
9383687 A. belfragei (Smith, 1890) (Rhynchagrotis) 11046
9383688 A. anchocelioides (Guenée, 1852) (Cerastis) 11045

Genus PRONOCTUA Smith, 1894

9383689 P. typica Smith, 1894 (Pronoctua) 11049
9383690 P. pyrophiloides (Harvey, 1876) (Agrotis) 11050
9383691 P. peabodyae (Dyar, 1903) (Noctua) [NEW]
9383692 P. craboi Lafontaine, 1998 (Pronoctua) [NEW]

Genus ISOCHLORA Staudinger, 1882
CHAMYLA Staudinger, 1899

9383693 I. sericea (Lafontaine & Kononenko, 1996) (Chamyla) [NEW]

[NOCTUIDAE – GROUP 2 Unplaced to Subfamily]

NOTE: This group comprises unrecognized and unplaceable species described from NA.

Genus AGASSIZIA Behr, 1870 nom. dub.

9383694e A. urbicola Behr, 1870 (Agassizia)
EXCL.; nom. dub. [NEW]
NOTE: This monotypic genus and species are unrecognized. TL: CA. The type has been destroyed.

Genus "NOCTUA" Linnaeus, 1758 PROV. PL.

9383695e N. depressa Fabricius, 1794 (Noctua)
EXCL.; nom. dub. [NEW]
NOTE: Unrecognized name, TL: "America Boreali".

Genus "PHALAENA" Linnaeus, 1758 PROV. PL.

9383696e P. domiduca Martyn, 1797 (Phalaena)
EXCL.; nom. dub. [NEW]
NOTE: Unrecognized name. TL: USA: GA. Junior primary homonym of *Phalaena domiduca* Hufnagel, 1766.
9383697e P. incisa Martyn, 1797 (Phalaena)
EXCL.; nom. dub. [NEW]
NOTE: Unrecognized name. TL: USA: GA. Junior primary homonym of *Phalaena Noctua incisa* Villers, 1789.
9383698e P. lugubris Martyn, 1797 (Phalaena)
EXCL.; nom. dub. [NEW]
NOTE: Unrecognized name. TL: USA: GA.
9383699e P. omicron Afzelius, 1823 (Phalaena)
EXCL.; nom. dub. [NEW]
NOTE: Unrecognized species. TL: NA. A junior primary homonym of *Phalaena omicron* Geoffroy, 1785.
9383700e P. peullina Martyn, 1797 (Phalaena)
EXCL.; nom. dub. [NEW]
NOTE: Unrecognized name. TL: USA: GA.
9383701e P. signifera Martyn, 1797 (Phalaena)
EXCL.; nom. dub. [NEW]
NOTE: Unrecognized name. TL: USA: GA.
9383702e P. vermicularis Martyn, 1797 (Phalaena)
EXCL.; nom. dub. [NEW]
NOTE: Unrecognized name. TL: USA: GA.

EXCLUDED SPECIES

NEPTICULIDAE
16a0098e "Nepticula" anguinella Clemens, [1862] (nom. dub.)
16a0099e "Nepticula" platea Clemens, [1862] (nom. dub.)

PSYCHIDAE
300029e "Chalia" rileyi Heylaerts, 1884 (nom. dub.)

GRACILLARIIDAE
33a0146e Parornix trepidella (Clemens, 1860) (nom. dub.)
33a0171E Caloptilia falconipennella (Hübner, 1813)
33a0369e "Lithocolletis" lysimachiaeella Chambers, 1875 (nom. dub.)

TORTRICIDAE
51a0056.2e Acleris ferruginiguttana (Fernald, 1882) (nom. dub.)
51a0090.1E Eugnosta argyroplaca (Meyrick, 1931)
51a0095.1E Eugnosta californica (Razowski, 1986)
51a0096.1E Eugnosta chemsakiana (Razowski, 1986)
51a0111.1E Phtheochroa inopiana (Haworth, 1811)
51a0140.1E Aethes kindermanniana (Treitschke, 1830)
51a0156.1E Aethes sonorae (Walsingham, 1884)
51a0271E Argyrotaenia purata (Meyrick, 1930)
51a0416E Sparganothis pilleriana ([Denis & Schiffermüller], 1775)
51a0457e [Tortricinae – No Genus] retractana (Walker, 1863) (nom. dub.)
51a0645.1E Ancylis myrtillana (Treitschke, 1830)
51a0717E Rhyacionia duplana (Hübner, 1811)
51a0872.1E Eucosma aspidiscana (Hübner, [1817])
51a1131E Gypsonoma nitidulana (Lienig & Zeller, 1846)
51a1381.1E Cydia saltitans (Westwood, 1858)
51a1392E Thaumatotibia leucotreta (Meyrick, 1913)
51a1394E Auratonota dispersa Brown, 1990

AUTOSTICHIDAE
59a0003E Oegoconia quadripuncta (Haworth, 1828)

GELECHIIDAE
59a0493E Anacampsis triangularis Braun, 1923
59a0866E Gelechia intermedia Braun, 1923
59a1304E Scrobipalpa instabilella (Douglas, 1846)

COLEOPHORIDAE
59a1542.1E Coleophora caespititiella Zeller, 1839
59a1617.1E Coleophora pulchricornis Walsingham, 1897
59a1643.1E Coleophora therinella Tengström, [1848]

SCYTHRIDIDAE
59a1719e Scythris brevistrigella (Chambers, 1875) (nom. dub.)
59a1719.1e Scythris dorsipallidella (Chambers, 1875) (nom. dub.)
59a1728E Neoscythris euthia (Walsingham, 1914)

BLASTOBASIDAE
59a1769E Blastobasis ochrobathra Meyrick, 1921
59a1776E Blastobasis segnella Zeller, 1873

PTEROPHORIDAE
63a0019E Stenoptilia pterodactyla (Linnaeus, 1761)
63a0161E Adaina parainvida Gielis, 1992

HESPERIIDAE
77a0033E Astraptes galesus (Mabille, 1888)
77a0054E Codatractus melon (Godman & Salvin, 1893)
77a0055E Codatractus carlos Evans, 1952
77a0056E Codatractus bryaxis (Hewitson, 1867)
77a0061E Cephise procerus (Plötz, 1880)
77a0069E Cogia cajeta (Herrich-Schäffer, 1869)
77a0070E Dyscophellus euribates (Stoll, in: Cramer, [1782])
77a0093E Staphylus ascalaphus (Staudinger, 1875)
77a0111E Pyrgus adepta (Plötz, 1884)
77a0121E Heliopetes nivella (Mabille, 1883)
77a0124E Telemiades antiope (Plötz, 1882)
77a0134E Ephyriades zephodes (Hübner, [1825])
77a0163E Piruna cyclosticta (Dyar, 1920)
77a0164E Erionota thrax (Linnaeus, 1767)
77a0165E Potanthus dara (Kollar, [1844])
77a0166E Potanthus mingo (Edwards, 1866)
77a0167E Potanthus omaha (Edwards, 1863)
77a0181E Quasimellana mexicana (Bell, 1942)
77a0184E Anatrytone potosiensis (Freeman, 1969)
77a0191E Polites catilina (Plötz, 1886)
77a0233E Ochlodes sylvanus (Esper, [1779])
77a0246E Decinea decinea (Hewitson, 1876)
77a0269E Amblyscirtes fluonia Godman, 1900
77a0283E Repens florus (Godman, 1900)
77a0294E Remella remus (Fabricius, 1798)
77a0299E Eutychide complana (Herrich-Schäffer, 1869)
77a0302E Choranthus radians (Lucas, 1857)
77a0303E Choranthus haitensis Skinner, 1920
77a0304E Choranthus vitellius (Fabricius, 1793)
77a0305E Pyrrhocalles antiqua (Herrich-Schäffer, 1863)
77a0306E Pyrrhocalles jamaicensis (Schaus, 1902)
77a0324E Panoquina nero (Fabricius, 1798)

PAPILIONIDAE
77a0353E Eurytides celadon (Lucas, 1852)
77a0360E Battus devilliers (Godart, [1824])

PIERIDAE
77a0393E Enantia jethys (Boisduval, 1836)
77a0403E Pyrisitia chamberlaini (Butler, 1898)
77a0472E Pieris brassicae (Linnaeus, 1758)

LYCAENIDAE
77a0480E Lycaena tityrus (Poda, 1761)
77a0567E Strymon daraba (Hewitson, 1867)
77a0574E Strymon bubastus (Stoll, in: Cramer, [1780])
77a0592E Pseudolycaena marsyas (Linnaeus, 1758)
77a0598E Catochrysops strabo (Fabricius, 1793)
77a0599E Lampides boeticus (Linnaeus, 1767)
77a0626E Euchrysops cnejus (Fabricius, 1798)

RIODINIDAE
77a0664E Euselasia sergia (Godman & Salvin, 1885)
77a0674E Calephelis dreisbachi McAlpine, 1971
77a0678E Calephelis sinaloensis McAlpine, 1971
77a0692E Apodemia hypoglauca (Godman & Salvin, 1878)

NYMPHALIDAE
77a0699E Melinaea lilis (Doubleday, 1847)
77a0700E Pteronymia cotytto (Guérin-Méneville, [1844])
77a0701E Greta polissena (Hewitson, 1863)
77a0702E Greta morgane (Geyer, 1833)
77a0703E Ithomia iphianassa Doubleday, 1847
77a0714E Eueides polymnia (Linnaeus, 1758)
77a0725E Boloria euphrosyne (Linnaeus, 1758)
77a0733E Boloria dia (Linnaeus, 1767)
77a0757E Euthalia nais (Forster, 1771)
77a0766E Adelpha bredowii Geyer, 1837
77a0780E Hamadryas fornax (Hübner, [1823])
77a0789E Mestra dorcas (Fabricius, 1775)
77a0792E Dynamine tithia (Hübner, 1823)
77a0793E Diaethria asteria (Godman & Salvin, 1894)
77a0794E Diaethria clymena (Cramer, [1775])
77a0795E Diaethria anna (Guérin-Méneville, [1844])
77a0796E Diaethria astala (Guérin-Méneville, [1844])
77a0808E Aglais urticae (Linnaeus, 1758)
77a0812E Nymphalis xanthomelas ([Denis & Schiffermüller], 1775)
77a0816E Polygonia c-album (Linnaeus, 1758)
77a0836E Junonia evarete (Cramer, [1779])
77a0838E Junonia genoveva (Cramer, [1780])
77a0851E Chlosyne erodyle (Bates, 1864)
77a0862E Chlosyne ehrenbergii (Geyer, [1833])
77a0878E Janatella leucodesma (Felder & Felder, 1861)
77a0879E Anthanassa ardys (Hewitson, 1864)
77a0880E Anthanassa drusilla (Felder & Felder, 1861)
77a0886E Anthanassa nebulosa (Godman & Salvin, 1878)
77a0903E Melitaea athalia (Rottemburg, 1775)
77a0904E Melitaea britomartis Assman, 1847
77a0918E Coenonympha pamphilus (Linnaeus, 1758)
77a0937E Calisto zangis (Fabricius, 1775)

77a0950E Erebia inuitica Wyatt, 1966
77a0958E Homeonympha vesagus (Doubleday, [1849])
77a0961E Oeneis tarpeia (Pallas, 1771)
77a0975E Opsiphanes boisduvallii Doubleday, [1849]

PYRALIDAE
80a0036E Blepharocerus rosellus Blanchard, 1852
80a0037E Blepharocerus ignitalis Hampson, 1906
80a0054E Aphomia fuscolimbella (Ragonot, 1887)
80a0072E Cryptoblabes gnidiella (Millière, 1864)
80a0136E Ectomyelois decolor (Zeller, 1881)
80a0163E Vitula biviella (Zeller, 1848)
80a0296E Sciota bisra (Dyar, 1919)
80a0432E Creobota grossipunctella (Ragonot, 1888)
80a0511E Cactobrosis longipennella (Hampson, 1901)
80a0632E Tallula atramentalis (Lederer, 1863)
80a0666E Coenodomus hockingii Walsingham, 1889

CRAMBIDAE
80a1029E Herpetogramma licarsisalis (Walker, 1859)
80a1069E Desmia stenizonalis Hampson, 1912
80a1073E Desmia microstictalis Hampson, 1904
80a1108E Hyalea dividalis (Geyer, in: Hübner, [1832])
80a1268E Austromusotima camptozonale (Hampson, 1897)
80a1455E Argyria contiguella (Zeller, 1872)

LASIOCAMPIDAE
870035E Artace albicans Walker, 1855

BOMBYCIDAE
890007E Bombyx mori (Linnaeus, 1758)

SATURNIIDAE
890008E Citheronia phoronea (Cramer, [1779])
890037E Hemileuca lex (Druce, 1897)
890062E Hylesia coinopus Dyar, 1913
890063.1E Ormiscodes socialis (Feisthamel, in: Guérin-Méneville, 1839)

SPHINGIDAE
890134E Lintneria lugens (Walker, 1856)
890143E Smerinthus saliceti Boisduval, [1875]
890176E Cautethia yucatana Clark, 1919

URANIIDAE
91a0005E Antiplecta ineptaria Möschler, 1890

GEOMETRIDAE
91a0147E Minoa murinata (Scopoli, 1763)
91a0424E Xanthorhoe montanata ([Denis & Schiffermüller], 1775)
91a0597E Archiearis hodeberti (Leraut, 2002)
91a0773E “Macaria” crocearia (Hulst, 1887)
91a1129E Colotois pennaria (Linnaeus, 1761)
91a1196E Aspitates ochrearia (Rossi, 1794)

NOTODONTIDAE
930054E Hemiceras cadmia Guenée, 1852
930087.7E Ginaldia distinguenda (Walker, 1856)
930087.75E Ginaldia lineata (Druce, 1887)
930096.5E Disphragis captiosa Draudt, 1932
930139E Scotura annulata (Guérin-Méneville, 1844)

EREBIDAE
930141.1E Lymantria monacha (Linnaeus, 1758)
930172E Euproctis similis (Fuessly, 1775)
930196E Propyria schausi (Dyar, 1898)
930217.1E Manulea complana (Linnaeus, 1758)
930336.53E Virbia cetes (Druce, 1897)
930348.1E Utetheisa pulchelloides Hampson, 1907
930363.1E Halysidota underwoodi Rothschild, 1909
930363.2E Halysidota fuliginosa Rothschild, 1909
930383.1E Pseudohemihyalea mansueta (Edwards, 1884)
930392E Neritos prophaea Schaus, 1905
930417.1E Euchaetes cressida Dyar, 1913
930449.5E Antichloris viridis Druce, 1884
930457E Cosmosoma teuthras (Walker, 1854)
930491.1E Zanclognatha minoralis Smith, 1895
930610.1E Anomis cataggellus Dyar, 1913
930623.5E Oraesia excavata (Butler, 1878)
930650E Ablemma grandimacula (Schaus, 1911)
930696E Eublemma irresoluta Dyar, 1919
930758.1E Thysania agrippina (Cramer, [1775]
931054.1e Zale meriata (Martyn, 1797) (nom. dub.)
931062E Amolita sentalis (Kaye, 1901)
931094.3e Antiblemma californica (Behr, 1870) (nom. dub.)

NOCTUIDAE
931168.1E Trichoplusia abrota (Druce, 1889)
931208.5E Megalographa bonaerensis (Berg, 1882)
931299.5E Eustrotia fausta Druce, 1889
931373.1E Tarache ardoris Hübner, [1831]
931491.6E Acronicta megacephala (Denis & Schiffermüller, 1775)
931672.1E Chrysoecia requies (Dyar, 1909)
931678.1E Basilodes inquinatus Hogue, 1963
931699.1E Neumoegenia coronides (Druce, 1889)
931699.2E Neumoegenia albavena (Ottolengui, 1898)
932053.1E Heliothis molochitina (Berg, 1882)
932183.1e Schinia oliva (Martyn, 1797) (nom. dub.)
932194.1e Callopistria argentomacularia (Martyn, 1797) (nom. dub.)
932204.1e “Cryphia” corticosa (Guenée, 1852) (nom. dub.)
932269.5E Proteuxoa capularis (Guenée, 1852)
932343.1E Apamea maillardi (Geyer, in: Hübner, [1834]
932548.1E Lithophane lamda (Fabricius, 1787)
932594.5e Sericaglaea adulta (Guenée, 1852) (nom. dub.)
932615.1E Agrochola helvola (Linnaeus, 1758)
932685.5E Polymixis flavicincta ([Denis & Schiffermüller], 1775)
932824.1e Anarta mimuli Behr, 1885 (nom. dub.)
932845.1E Anarta myrtilli (Linnaeus, 1761)
932936.1E Mythimna adultera (Schaus, 1894)
932936.2E Mythimna litoralis (Curtis, 1827)
932967.1e Leucania obusta Guenée, 1852 (nom. dub.)
932967.3E Ichneutica mutans (Walker, 1857)
933162.1E “Eriopyga” crista (Walker, 1856)
933528.2E Agrotis trux (Hübner, [1824]
933608.1E Xestia rhaetica (Staudinger, 1871)
933694e Agassizia urbicola Behr, 1870 (nom. dub.)
933695e “Noctua” depressa Fabricius, 1794 (nom. dub.)
933696e “Phalaena” domiduca Martyn, 1797 (nom. dub.)
933697e “Phalaena” incisa Martyn, 1797 (nom. dub.)
933698e “Phalaena” lugubris Martyn, 1797 (nom. dub.)
933699e “Phalaena” omicron Afzelius, 1823 (nom. dub.)
933700e “Phalaena” peullina Martyn, 1797 (nom. dub.)
933701e “Phalaena” signifera Martyn, 1797 (nom. dub.)
933702e “Phalaena” vermicularis Martyn, 1797 (nom. dub.)

APPENDIX I
Lengthy taxonomic notes

1. Lasiocampidae. GENUS PHYLLODESMA Hübner, 1820

This genus was revised by Lajonquière (1968) and again by Franclemont (1973a). The main differences proposed by Franclemont (1973a) were that Lajonquière's many subspecies of *P. americana* were revised to synonymy, and that three rather than two NA species were recognized (*P. americana*, *P. carpinifolia*, *P. coturnix*). Lajonquière (1968) recognized 12 subspecies of *P. americana*, whereas Franclemont (1973a) recognized none but then reverted to recognizing six subspecies in the 1983 checklist (Franclemont, in: Hodges et al. 1983). Another contentious point concerned which populations the name *carpinifolia* pertained to. Lajonquière (1976) published an addendum to his 1968 revision emphasizing that *carpinifolia* applied to CA populations, as he had originally interpreted it (Lajonquière 1968). Franclemont (1973a), however, stated that *carpinifolia* pertained to a southeastern USA taxon (type locality: GA). It is therefore unsettled as to what the name *carpinifolia* applies to; Franclemont (in Hodges et al. 1983) maintained his interpretation of a southeastern, not west coast, taxon.

The separation of the three purported species as diagnosed by Franclemont (1973a) has always been problematic because they are distinguished based primarily on geographic location and wing phenotype differences rather than discrete structural differences. Franclemont argued that the shape of the male valve differed slightly between species, but variation in genital structure among all NA populations is extremely slight and of questionable utility as diagnostic interspecific characters.

Since the work of Franclemont (1973a) and Lajonquière (1968, 1976), molecular data and much additional study material has become available. Neither molecular nor ecological data unequivocally support the existence of more than a single species in NA. Variation of DNA barcodes is relatively large but is not concordant with previous species concepts nor entirely concordant with major biogeographic boundaries. For example, CA *P. coturnix* DNA lineages occur together with *P. americana* lineages in southwestern BC, and there is no corroborating evidence that these are phenotypically or ecologically distinct species occurring together. Similarly, southeastern USA *occidentis* populations exhibit two DNA lineages that co-occur with a third lineage throughout eastern NA. Franclemont (1973a) argued that *occidentis* was a species distinct from *P. americana* because it was a more southern univoltine species, whereas *americana* is bivoltine throughout most of the Northeast; in the light of other evidence, it is equally plausible that a single, widespread species is facultatively bivoltine only where climatic conditions are favorable. Lastly, the NA DNA lineages are interdigitated with Eurasian *P. ilicifolia* (Linnaeus, 1758) / *P. japonica* Leech, 1888) / *P. tremulifolia* (Hübner, [1810]), indicating a very close and possibly conspecific relationship with Eurasian taxa. In summary, the last two taxonomic revisions of NA *Phyllodesma* differ substantially in taxonomic concepts; it is not currently possible to reliably identify the three recognized species; and there is no convincing evidence that more than one species is present in NA. Consequently, all NA populations are here treated as a single, variable species.

2. Family Saturniidae

2a. Hemileuca maia group Tuskes et al., 1996

This group is perhaps the single most contentious area of NA Bombycoidea systematics, due to the complex phenotypic, genetic, and biogeographic systems underpinning these moths (see for example, recent work in Rubinoff et al. 2017; Dupuis et al. 2018; Pavulaan 2020; Tuttle et al. 2020, 2021) Application of standard Linnaean taxonomy does not reasonably address the intricacies of admixture, secondary contact, and rapid ecological specialization that are rampant in this group. The weak to nonexistent morphological and genetic differences between certain named taxa, for example, do not parallel well-defined ecological specializations that are observed and diagnosable. This has led to significant uncertainty in naming the various identifiable populations. For the purposes of this checklist, the more liberal breakdown of genetic clusters in this *Hemileuca* complex is followed, as shown in Dupuis et al. (2018, fig. 2), recognizing *H. maia*, *H. menyanthevora*, n. stat., and *H. nevadensis*, as well as the biogeographically, morphologically, and/or ecologically distinct populations within the broader concept of *H. maia* (e.g., *H. slosseri*, *H. peigleri*, and *H. lucina*). Additionally, to be consistent, other less recognizable populations with previously little evidence in the literature for their distinction (*H. orleans* n. stat., *H. sandra* n. stat., and *H. warreni* n. stat.), must also be

treated as valid. The taxon *H. iroquois*, described as a "hemispecies" in Cryan & Dirig (2020), refers to the same entity as *H. menyanthevora* (described as a subspecies); *iroquos* is here synonymized with the senior name *menyanthevora* and the latter name raised to full species status. Further taxonomic work must be carried out to determine whether a simpler classification (whereby many *H. maia* complex names will be sunk) or a more diverse classification (whereby many populations of the *H. maia* complex will require new names) is the more reasonable choice to properly encompass the ecological, morphological, and genetic diversity of the moths in this group.

2b. 890052 Hemileuca eglanterina (Boisduval, 1852)

Hemileuca vanschaycki is hereby synonymized with *H. eglanterina* (n. syn.). The extreme variability and wide geographic distribution of *H. eglanterina*, coupled with the lack of any external diagnostic characters differentiating *H. vanschaycki* from *H. eglanterina* and only tenuous genitalia character differences (seemingly due to genitalia preparation methods), results in *H. vanschaycki* being an unsubstantiated taxon. Apparently, this name was applied merely based on DNA barcoding results, though pertinent information such as percent genetic distance between *H. vanschaycki* and *H. eglanterina*, a phylogenetic reconstruction showing how *H. vanschaycki* fits into the evolutionary framework of *H. eglanterina* (and its various subspecies), and detailed morphological comparisons are all wanting. Undoubtedly the *H. eglanterina* complex is not fully understood from a taxonomic perspective, and there is the potential for cryptic diversity to be recognized. However, haphazard application of names such as *H. vanschaycki* onto a single specimen (the two "paratypes" of *H. vanschaycki* were apparently not examined by the authors as these are only referenced by BOLD voucher numbers with no associated collecting data) is problematic and not warranted at this time.

3. Family Sphingidae

3a. 890111 Sphinx chersis (Hübner, [1823])

The taxa *oreodaphne* and *pallescens* were reinstated as subspecies by Kitching & Rougerie et al. (2018); their rationale is as follows. Rothschild & Jordan (1903) recognized four subspecies within *Sphinx chersis*: ssp. *chersis* (eastern Canada and northeastern USA); ssp. *pallescens* (CO, AZ); ssp. *oreodaphne* (CA, OR) and ssp. *mexicanus* (Rothschild & Jordan, 1903) (Mexico, with no further resolution). They noted that there were no differences among the subspecies in the male genital morphology and that the habitus differences were "slight". Hodges (1971: 83) recognized no subspecies within *Sphinx chersis* (although he did not refer to ssp. *mexicanus*) and that remained the situation until they were reinstated by Kitching & Rougerie et al. (2018), which is maintained in the present checklist. Although acknowledging that apparent morphological differences are minimal, analysis of DNA barcodes has revealed rather large divergences between three of the putative subspecies: *chersis*/*mexicanus*, ~3%; *chersis*/*pallescens*, ~4%; *mexicanus*/*pallescens*, 2.0 to 2.3% (no samples of *oreodaphne* were available). In addition, the distribution pattern of the four subspecies is very similar to that of the four taxa of the *Smerinthus cerisyi* species-group (see Appendix section 3d below), and formal recognition of the *Sphinx chersis* subspecies will facilitate future biogeographical studies. There is also a similar unresolved taxonomic issue in that it is still unclear as to which Mexican subspecies of *chersis* the name *mexicanus* properly applies. In the original description, Rothschild & Jordan (1903) gave the type locality only as "Mexico". The matter will only be resolved when the holotype has its DNA sequenced.

3b. 890119.1 Sphinx oslari (Rothschild & Jordan, 1903)

This species was revalidated by Kitching & Rougerie et al. (2018); their rationale is as follows. Rothschild & Jordan (1903) described *Hyloicus gordius oslari*, based on three males and two females from Glenwood Springs, CO. This isolated population was stated to differ from the nominotypical subspecies in being larger and paler (especially the forewing) and, on the underside, a less sharply marked hindwing medial band and very small abdominal spots. It was synonymized with nominotypical *S. gordius* by Hodges (1971), who, while admitting the generally larger size of *oslari*, considered that this might not be overly significant and that the other diagnostic features all fell within the range of individual variation of *S. gordius*. *Sphinx gordius oslari* was reinstated as a subspecies by Kitching & Cadiou (2000), who considered that the differences in size and pattern, together with the highly disjunct distribution, warranted recognition as a subspecies. Tuttle (2007:

86) only noted the taxon in passing ("Interestingly, there are isolated populations [of *S. gordius*] in Colorado and Utah"). Most recently, Kitching & Rougerie et al. (2018) treated *S. oslari* as a species. A study of the series in the NHMUK has confirmed Hodges' (1971) suspicions regarding the difference in size between the two taxa: *S. gordius*, forewing length = 30 to 39 mm, n = 51 males; *S. oslari*, forewing length 35 to 44 mm, n = 16 males. Similar size differences were also noted in cursory examination of the *S. gordius* and *S. oslari* material in the MGCL. There are also differences in the male genitalia. The gnathos of *S. gordius* is bluntly pointed but rounded in *S. oslari*. The upper lobe of the harpe in *S. oslari* is broader and bears small spines along its entire length ventrally as well as apically; in *S. gordius*, these spines are restricted to a small number at the very apex (the specimen illustrated by Hodges (1971: figure 7) appears to be that of an *S. oslari* but this cannot be confirmed as no provenance was given). Finally, the sharply pointed apical process of the phallus is shorter and broader in *S. oslari* than in *S. gordius*, reaching only as far as the diverticula of the everted vesica, rather than well beyond.

3c. 890125 Sphinx sequoiae: syn. engelhardti Clark, 1919

Kitching & Rougerie et al. (2018) returned *engelhardti* to synonymy with *S. sequoiae*; their rationale is as follows. *Sphinx dolli [sic] engelhardti* was described by Clark (1919) from three males and a female collected at Bellevue, Washington Co., UT. Shortly afterwards, on the advice of Karl Jordan, Clark (1920) synonymized it with *S. sequoiae*. Hodges (1971: 70) accepted this assignment to species but rejected a subspecific separation. Tuttle (2007: 92) noted that "the type locality for *engelhardti* is beyond the range of any subsequent *sequoiae* collections but well within the range of *S. dollii*" and on this basis alone, re-synonymized *engelhardti* with *S. dollii*. However, examination of the genitalia of a male from St. George, Washington Co., UT, in the NHMUK, showed that the harpe has the shape of *S. sequoiae*, in which the marginal teeth project distally, rather than that of *S. dollii*, in which they are recurved (as illustrated by Hodges 1971: 71). On this basis, Kitching & Rougerie et al. (2018) returned *engelhardti* to synonymy with *S. sequoiae* and this status is maintained in the present checklist. Nevertheless, given its disjunct distribution, *engelhardti* clearly requires further study to fully ascertain its taxonomic status.

3d. 890141.1 Smerinthus astarte Strecker, [1885]

This taxon was reinstated as a valid species by Kitching & Rougerie et al. (2018); their rationale is as follows. Hodges (1971: 83) noted that "the name *astarte* has been applied to specimens [of *Smerinthus cerisyi*] in which the black mark in the center of the blue area extends to the surrounding black margin and is somewhat diamond shaped" and treated it as a form of *Smerinthus cerisyi*. Based on characters of the male genitalia, he then reinstated *Smerinthus saliceti* as a species for the populations in southern CA and southern AZ, noting also that "farther south, the species has been recorded from Mexico City". *Smerinthus astarte* was subsequently reinstated as a species by Eitschberger (2002: 89) without any justification: "Although there is no material available to me from CO, I am convinced from previous research that this taxon will last, as species or subspecies". He also questioned whether the populations in AZ and Mexico were conspecific. Tuttle (2007: 117) followed Hodges (1971), treating *S. astarte* as a junior synonym of *S. cerisyi*, and retained *S. saliceti* for the AZ populations. Schmidt & Anweiler (in Pohl et al. 2010: 503), when reinstating *S. ophthalmica* as a species, noted that "It is indeed possible that the prairie taxon is a species separate from both the southern mountain and boreal populations, related to or conspecific with *saliceti*. Antennal structure, wing phenotype, and mitochondrial DNA indicate a closer relationship of these southern AB populations to *saliceti* than to *cerisyi*". Indeed, analysis of DNA sequence data does suggest that the prairie populations from southern AB south through the USA and western Mexico as far as Guadalajara are a species separate from *S. cerisyi* and *S. ophthalmica*, but they also indicate that the populations of central and southern Mexico represent a fourth species. The unresolved issue is, however, to which of the two species that occur in Mexico does the name *S. saliceti* apply? In the original description, Boisduval ([1875]) gave the type locality only as "Mexique". It is perhaps more probable that, at that time, Boisduval's specimens would have come from central rather than north/west Mexico, and thus, these are the populations to which the name *S. saliceti* would more appropriately apply. The next oldest name for the other species is then *S. astarte*, which was reinstated by Kitching & Rougerie et al. (2018) and maintained as valid in the present checklist for the aforementioned central NA populations. Hence; *S. saliceti* is deemed excluded from the NA fauna in the present checklist. However, the matter will only be finally resolved when the lectotype of *S. saliceti* is designated and its DNA sequenced.

3e. 890144.1 Paonias macrops (Gehlen, 1933)

Paonias macrops was reinstated as a species by Eitschberger (2002: 87) with only a minimal explanatory justification: “On the basis of the phenotype as well as differences in the genital structures, a good species (see Plate 16)”. However, the male genitalia of Smerinthinae are quite individually variable and examination of the illustrated genitalia show no clear and consistent differences from those of *P. myops*. Nevertheless, the distribution of *P. macrops*, as then understood, was quite disjunct from that of *P. myops*; the former taxon being apparently restricted to central Mexico and the latter occurring in the USA and Canada. On this basis, *P. macrops* was re-synonymized with *P. myops*, but retained as a subspecies, by Kitching & Rougerie et al. (2018). Recent analysis of DNA barcode data now indicate that *P. macrops* is 3 to 4% divergent from *P. myops*, which in non-feeding Smerinthinae is just sufficient to indicate a species-level separation (Rezác 2018). Consequently, *P. macrops* is here reinstated to species status (rev. stat.). However, it should be noted that all samples of *P. myops* and *P. macrops* currently constitute a single BIN (AAA6112) and so further sampling in northern Mexico may yet demonstrate that the two taxa are conspecific.

Hodges (1971: 86) noted “a rather striking form [of *Paonias myops*] occurs in southern Arizona in which the markings of the forewings are suffused so that no elements of the pattern appear distinct, and the middle portion of the thorax has a well-defined gold-yellow band”. This form was subsequently described by Eitschberger (2002) as *P. emmeli* and distinguished from more northern and eastern populations of *P. myops* using both the color pattern and features of the male genitalia. The latter all fall within the range of individual variation of a smerinthine species and cannot be used to support species status, but the color pattern characters are consistent. However, these same features also serve to distinguish *P. macrops* from *P. myops* and analysis of DNA barcode data confirms the close relationship between the Mexican and southern AZ populations, with less than 1% divergence between samples from Michoacán and AZ. Furthermore, populations of *P. macrops* are now known from intermediate localities in the northern Mexican states of Sonora and Chihuahua, so partially closing the geographical gap. Tuttle (2007: 121) had synonymized *emmeli* with *P. myops* (but without giving any explanation). Kitching & Rougerie et al. (2018) treated *emmeli* as a synonym of subspecies *P. myops macrops*, but based on the reassessed habitus characters and DNA barcode analysis above, we here treat *P. macrops* as a full species and transfer the synonymy of *emmeli* to *P. macrops* (rev. syn.).

APPENDIX II

Comparison of current P-Numbers to the original 2016 P-Numbers

In general, species added since the numbering scheme of Pohl et al. (2016) are inserted in proper position in the P-Number sequence with a decimal number, and species moved to a new position within the superfamily since then are also given new decimal numbers. However, in some superfamiles the number of changes was so great that a complete renumbering was required. Significant changes to superfamily numbering schemes since Pohl et al. (2016) are as follows:

01. MICROPTERIGOIDEA
No change.

07. ERIOCRANIOIDEA
No change.

09a. NEOPSEUSTOIDEA
Moved superfamily from no. 13, but four-digit species numbers remain unchanged.

11. HEPIALOIDEA
No change.

16a. NEPTICULOIDEA
New numbering scheme following van Nieukerken et al. (2016). The current scheme was adopted previously in the Canada–AK checklist of Pohl et al. (2018).

21a. ADELOIDEA
New numbering scheme following the taxonomic sequence presented herein.

23a. TISCHERIOIDEA
New numbering scheme following the taxonomic sequence presented herein.

30. TINEOIDEA
No change. Note that the genus *Acrolophus* has been returned to alphabetic order, resulting in a number of decimals due to species moves.

33a. GRACILLARIOIDEA
New numbering scheme following the taxonomic sequence presented herein. Note that within Bucculatricidae, the species numbers remain the same.

36a. YPONOMEUTOIDEA
New numbering scheme following the taxonomic sequence presented herein.

37a. DITRYSIA – SUPERFAMILY UNASSIGNED
Moved superfamily from no. 58, but the sole four-digit species number is retained unchanged.

38a. APODITRYSIA – SUPERFAMILY UNASSIGNED
New numbering scheme following the taxonomic sequence presented herein.

40a. DOUGLASIOIDEA
Recognized as a distinct superfamily rather than being placed as “unassigned Apoditrysia” under superfamily no. 38. The current scheme was adopted previously in the Canada–AK checklist of Pohl et al. (2018).

43a. SCHRECKENSTEINIOIDEA
Moved superfamily from no. 50, but four-digit species numbers remain unchanged.

45a. URODOIDEA
Moved superfamily from no. 54, but four-digit species numbers remain unchanged.

47a. CHOREUTOIDEA
Moved superfamily from no. 58. New numbering scheme following the taxonomic sequence presented herein.

49a. GALACTICOIDEA
Moved superfamily from no. 60, but the sole four-digit species number remains unchanged.

51a. TORTRICOIDEA
Moved superfamily from no. 62. The four-digit species numbers remain unchanged, except for subtribe Cochylina and genus *Pelochrista*, where the order had changed so much that they required renumbering. New numbers, ending with ".1" to avoid confusion with the old numbers, were assigned to those groups. A significant number of decimal numbers were also necessary in the genera *Eucopina*, *Epiblema* and *Dichrorampha*, to accommodate new species orders.

53a. COSSOIDEA
This superfamily has recently been recognized as distinct from Sesioidea. Species are moved from superfamily no. 64, but the four-digit species numbers remain unchanged.

55a. SESIOIDEA
Moved superfamily from no. 64. The four-digit species numbers remain unchanged, so they begin at 55a0048, after the removal of the Cossoidea.

57a. ZYGAENOIDEA
Moved superfamily from no. 66. New numbering scheme following the taxonomic sequence presented herein.

59a. GELECHIOIDEA
Moved superfamily from no. 42, but four-digit species numbers remain unchanged, with the exception of Coleophoridae. The sole coleophorid genus *Coleophora* has been arranged alphabetically and has been renumbered with decimal numbers.

61a. ALUCITOIDEA
Moved superfamily from no. 44, but four-digit species numbers remain unchanged.

63a. PTEROPHOROIDEA
Moved superfamily from no. 46, but four-digit species numbers remain unchanged.

65a. CARPOSINOIDEA
Moved superfamily from no.48, but four-digit species numbers remain unchanged.

67a. EPERMENIOIDEA
Moved superfamily from no. 52, but four-digit species numbers remain unchanged.

70. THYRIDOIDEA
No change.

72. HYBLAEOIDEA
No change.

77a. PAPILIONOIDEA
New numbering scheme following the taxonomic sequence presented herein.

80a. PYRALOIDEA
New numbering scheme following the taxonomic sequence presented herein. Note that two *Argyria* species were added as decimals very late in the preparation of this work.

83. MIMALLONOIDEA
No change.

85. DREPANOIDEA
No change.

87. LASIOCAMPOIDEA
No change.

89. BOMBYCOIDEA
No change.

91a. GEOMETROIDEA
New numbering scheme following the taxonomic sequence presented herein, but the species numbers for Uraniidae and Sematuridae have been preserved at the beginning of the superfamily. Note that two *Homochlodes* species were synonymized very late in the preparation of this work, resulting in the numbers 91a1141 and 91a1142 not being used.

93. NOCTUOIDEA
Original P-Numbers from Lafontaine & Schmidt (2010) have been retained, with additions and modifications in the Noctuoidea checklist updates by Lafontaine & Schmidt (2011, 2013a, 2015) and Schmidt et al. (2018), and more recent additions and rearrangements. Thus, any numbers with decimals indicate species that have been moved or added since the original numbers were assigned in 2010. Note that in a few cases, the decimals employed here differ slightly from decimal numbers used in published updates to Lafontaine & Schmidt (2010), as follows:

Current No.	Name author, date (original genus)	Old No.
930356.5	Xenosoma flaviceps (Walker, 1865) (Eloria)	930356.1
930447.5	Aclytia heber (Cramer, [1780]) (Sphinx)	930447.1
930468.5	Nyridela xanthocera (Walker, 1856) (Gymnelia)	930468.1
930541.5	Thursania lycimnia (Druce, 1891) (Theotinus)	930541.1
930611.5	Dinumma deponens Walker, 1858 (Dinumma)	930611.1
930621.5	Gonodontodes dispar Hampson, 1913 (Gonodontodes)	930621.1
930968.5	Ophisma tropicalis Guenée, 1852 (Ophisma)	930968.1
930968.6	Mimophisma forbesi Schaus, 1940 (Mimophisma)	930968.1
930968.65	Mimophisma delunaris (Guenée, 1852) (Ophisma)	930968.2
930968.7	Achaea ablunaris (Guenée, 1852) (Ophisma)	930968.3
931160.5	Litoprospus futilis (Grote & Robinson, 1868) (Dyops)	931160.1
931160.6	Litoprospus hatuey (Poey, 1832) (Noctua)	931160.2
931160.7	Litoprospus bahamensis Hampson, 1926 (Litoprosopus)	931160.3
931160.8	Litoprospus coachella Hill, 1921 (Litoprosopus)	931160.4
931160.9	Litoprospus confligens (Walker, [1858]) (Dyops)	931160.5
931253.5	Concana mundissima Walker, [1858] (Concana)	931253.2
931427.4	Acronicta mansueta (Smith, 1897) (Acronycta)	931434.2
931427.5	Acronicta parallela (Grote, 1879) (Apatela)	931434.1
931432.1	Acronicta fallax (Herrich-Schäffer, 1854) (Diphthera)	931442.1
931732.72	Cydosia majuscula (Edwards, 1881) (Penthetria)	931254.1
931970.2	Neotuerta collectiora (Todd, 1966) (Tuerta)	931970.1
932034.75	Aleptina arenaria Metzler & Forbes, 2011 (Aleptina)	931636.1
932076.1	Schinia amblys (Dyar, 1913) (Lygranthoecia)	932130.1
932249.11	Chytonix palliatricula (Guenée, 1852) (Bryophila)	932249.5
932249.12	Chytonix sensilis Grote, 1881 (Chytonix)	932249.51
932361.5	Cherokeea attakullakulla Sullivan & Quinter, 2014 (Cherokeea)	932361.1
932615.2	Agrochola lunosa (Haworth, 1809) (Noctua)	932615.1
932648.5	Paraseptis adnixa (Grote, 1880) (Hadena)	932648.1
933115.7	Rhabdorthodes pattersoni Crabo, 2018 (Rhabdorthodes)	933115.1

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