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PRIMARY TYPES OF MICROLEPIDOPTERA IN THE MUSEUM OF COMPARATIVE ZOOLOGY (WITH A DISCUSSION ON V. T. CHAMBERS' WORK)

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ABSTRACT: Primary types (holotypes, lectotypes and syntypes) in the moth superfamilies Eriocranioidae, Hepialoidea, Nepticuloidea, Incurvarioidae, Tineoidea (except Gracillariidae), Gelechioidea (except Coleophoroidae), Cramboidae, Yponomeutoidea, Sesioidea, Cossoidea, Tortricoidea, Zygaenoidea, Pyraloidea, and Pterophoroidea are listed. Most of the taxa are Neartic, several Neotropical. Authors included are J. E. Cassino, J. T. Chambers, W. G. Dietz, H. Edwards, C. Fish, W. T. M. Forbes, H. Frey and J. Boll, A. R. Grote, T. W. Harris, G. D. Hulst, W. D. Kearfott, A. S. Packard, Lord Walsingham, and P. C. Zeller. Lectotypes are designated herein for Aneacampsis quadrinaculata (Chambers) and Isophricitits trimaculata (Chambers) (both Gelechioidae).

INTRODUCTION

Classification of several groups of North American microlepidoptera is made very difficult because most early workers on this fauna did not designate type specimens; their descriptions are inadequate to recognize the species; their "type" material was sent to more than one institution; and among them they described several hundred species. The Museum of Comparative Zoology (MCZ), Harvard University, has a significant number of types of these authors, particularly of V. T. Chambers. Chambers is notorious for his very brief and inadequate descriptions, the large number of his often very short papers in scattered journals, the large number of species for which no type material exists, and for the fact that his types were dispersed among the MCZ and contemporary workers. Because we have studied Chambers' papers and believe we have uncovered nearly all remaining specimens that can be considered authentic, we have included a discussion of specimens in other collections (see Appendix) and Chambers' bibliography to apprise other workers of the facts they will need when selecting lectotypes or designating neotypes. Many species are represented by no extant type material or are not represented by specimens in the MCZ; their names do not appear in the catalog. This catalog lists the primary types of 609 taxa of Microlepidoptera located in the MCZ. All holotypes, lectotypes, and syntypes in the families treated are listed along with some parallectotypes and "pseudotypes." All specimens (except obvious paratypes) with numbered red "MCZ type" labels are included. These red numbered labels were placed on the specimens by Nathan Banks and subsequent curators and sometimes are not accurate as noted in this list. Some lectotypes have been designated by previous authors by inference of holotype (Article 74(b), International Code of Zoological Nomenclature, third edition, 1985). For example, a lectotype was designated for Nepticula castaneae foliella Chambers by inference of holotype. We have not designated additional lectotypes here (except for two as part of

Hodges' research) because this action should be left to specialists as part of the revision process. Each species-group entry has five potential topics: 1) Original combination, author, and date-page citation; 2) Category of type, sex of specimen(s), and MCZ type number; 3) Geographic distribution as indicated in the original description and/or labels accompanying the type specimens; 4) Current valid name (if different from original combination); and 5) Remarks.

Information presented in brackets [ ] represents additions to or corrections of the original description. The present valid name of each taxon listed, if it differs from the original combination, is also included (following Hodges, et al., 1983 and more recent literature). Sex is included only when it could be determined readily without damaging the specimen. The locations of some other syntypes are indicated if known, using the following abbreviations: AMNH = American Museum of Natural History, New York; ANSP = Academy of Natural Sciences, Philadelphia; BMNH = British Museum (Natural History), London; LACM = Natural History Museum of Los Angeles County, Los Angeles; and USNM = National Museum of Natural History, Smithsonian Institution, Washington.

The following superfamilies (following Hodges, et al., 1983) are included in the list: Erioceranioidea, Hepialoidea, Nepticuloidea, Incurvarioidea, Tineoidea (except Gracillariidae), Gelechioidae (except Coleophoridae), Copromorphoidea, Trypogrammitoidea, Sesioidea, Cossoidea, Tortricoidae, Zygaenoidea, Pyraloidae, and Pterophoroidea. Data for Tineidae and Blastobasididae were provided by D. R. Davis and D. Adamski, respectively. Gracillariidae are under study by D. R. Davis (USNM). Coleophoridae are under study by B. Wright (Nova Scotia Museum) and were discussed by McDunnough (1944).

All the types listed here are in the main MCZ collection, except those in the Harris collection, which is maintained separately from the general collection. The MCZ collection includes the Peabody Academy collection (the Peabody Academy still exists in Salem, Massachusetts, but no longer maintains entomological collections) and the types from the now defunct Boston Society of Natural History. Details on the major type collections discussed here follow:

**Vactor T. Chambers**: Most of the remains of the Chambers collection are at the MCZ, with another significant part at the USNM. See appendix for discussion of possible Chambers types at the BMNH. Chambers deposited types at the MCZ between 1876 and 1883 (Hagen, 1884); many of them are in very poor condition, and many probably are not true types but specimens substituted by Chambers for lost or damaged types.

Walsingham (1889: 24) wrote, "Chambers, in distributing specimens to his various correspondents, frequently appears to have attached a wrong name to them. This he admits in more than one instance in his writings. The utmost caution is required before accepting a specimen in any collection as a co-type of any one of his species."

Chambers (1877c: 39) wrote: "... But a few years ago I began to make a collection to be preserved as types of all my species. These were all pinned and spread. Unfortunately, during my absence in Colorado, the greater part of this collection was destroyed. One or more specimens of the greater number of species were fortunately preserved, and most other species can be supplied. This collection is now in the Cambridge Museum [MCZ]. It contains types — pinned and spread — of something over 200 species." (See also Braun, 1963: 2; Hagen, 1884; Sattler, 1962.)

Most Chambers specimens bear only the data "Kentucky./Chambers." (machine printed) along with a handwritten determination label, and frequently a large handwritten number (between 12 and 164) on a separate label (the meaning of which remains unknown). Most of these were presumably collected around his home in
Covington, Kentucky (Chambers, 1875b: 234). Chambers wrote (1872: 433), "Out of at least one hundred and fifty species of Tineina which I have found here, fully three-fourths have been taken resting upon the leeward side of a board fence not two hundred yards long, at Linden Grove Cemetery at this place [Covington, Kentucky]."

Other major lots of material include those collected by Chambers (and others) in Colorado in 1875 (and other years) and Texas specimens purchased by Chambers from Gustaf W. Belfrage. Belfrage lived near Norse, Bosque County (some 60 km northwest of Waco), Texas, from 1868 to 1882 (Geiser, 1948). Most, but not all, of Belfrage's moth material was probably collected there.

The USNM has many Chambers types, obtained primarily through acquiring the collections of C. H. Fernald (which included part of the M. Murtfeldt collection), F. H. Belanger (via Laval University, Quebec), and W. Saunders (Busck, 1903: 768).

Type localities for many of Chambers' species are not obvious from the original descriptions. We have followed the label data on the types, unless contradicted by other evidence.

Because of the scattered nature of Chambers' publications, we have included all of them on Lepidoptera in our literature section, whether mentioned here or not.

William G. Dietz: His types of Blastobasidae and Gracillariidae are in the MCZ.

Heinrich Frey and Jacob Boll: Several types of species described by Frey and Boll (1873) previously assumed to be at the BMNH (e.g., Braun, 1972: 56) are present. These were evidently collected by Boll around Cambridge, Massachusetts, in autumn 1871 (Geiser, 1948: 22-23).

Thaddeus W. Harris: Probably the oldest extant collection of North American insects, most specimens are still in good condition. It is held as a separate unit at the MCZ because the labels are cryptic (Johnson, 1925). Most specimens bear Harris numbers, the catalog of which is in the MCZ Archives. Specimens for which further data are not given probably came from Massachusetts.

George D. Hulst: As discussed by Rindge (1955), the main Hulst collection is at AMNH, but the MCZ has syntypes of some Hulst taxa.

William D. Kearfott: The MCZ has a number of Kearfott syntypes (labeled "co-type"), some of which have now become paralectotypes. As discussed by Klots (1942: 392-393), much of Kearfott's collection is in AMNH, but parts are in USNM (via the Barnes collection), and elsewhere (including MCZ). The best candidates for lectotype designation for Kearfott taxa will generally be found at AMNH or USNM, not at MCZ. Authorship of lectotype designations in some Kearfott Tortricidae remains problematic; KLOTS (1942) credited many lectotype designations to Heinrich (1923, 1926). However, Heinrich did not publish which specimen he considered the type if there was more than one syntype in AMNH. KLOTS usually did designate individual specimens, and should be considered the designator of most of the lectotypes in question.

Alpheus S. Packard, Jr.: Included here are California specimens collected by Henry Edwards. Some of these Edwards specimens bear Edwards' catalog numbers; data from Edwards' catalog (now in AMNH) are included here.

Lord Walsingham [Thomas de Grey]: The MCZ has one Walsingham holotype (Eriocraeiidae) and many syntypes (Oecophoridae and Plutellidae). The syntypes are duplicates of species described by Walsingham (1881) from material he collected in California and Oregon in 1871-72 (see Essig, 1941), which were sent to Chambers by Walsingham. Lectotypes for these taxa should be designated from syntypes in the Walsingham collection at the BMNH.

Philipp C. Zeller: The MCZ has most of the specimens collected by Jacob Boll around Dallas, Texas in late 1869 and 1870.
(Geiser, 1929, 1948) and described by Zeller in three papers on North American Microlepidoptera (1872, 1873, 1875). The Boll specimens were purchased by Louis Agassiz for the MCZ and sent to Zeller for study. They all bear characteristic labels: machine printed “Dallas/Tex. Boll” and handwritten Zeller determination labels on green paper.

The following corrections and additions to recent literature are noted in the list: Several types not located by Wilkinson and coauthors are included (Nepticulidae). The syntypes of 11 Harris species reported lost by Duckworth and Eichlin (1978) are included (Sesiidae). The following were accidentally omitted from Hodges, et al. (1983): “Elachista” texanella Chambers (Scythrididae), Paralipsa fulminalis (Zeller) (Pyralidae) and Marasamarcha puntillo (Zeller) (Pterophoridae). Problems are noted in previous lectotype selections for Pyrausta unifascialis (Packard) (Pyralidae) and Oidaematurphorus grandis (Fish) (Pterophoridae). LECTOTYPES are here designated for Anacampsis quadrinacellela (Chambers) and Isophrius trimaculela (Chambers) (both Gelechiidae). “Scythris” alpabenella (Chambers) is here transferred from Scythrididae to Blastobasidae on advice of J. F. Landry and D. Adamski; Adamski will deal with its generic placement in a subsequent publication.

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SUPERFAMILY ERICOCRANIOIDEA

Family Ericocrianaidae

auricyanea Walsingham, 1882: 204, Micropteryx [sic]; HOLOTYPE male, MCZ 1622; [United States: probably California (see Davis, 1978)]; Dyserto- crania auricyanea (Walsingham).

SUPERFAMILY HEPIALOIDEA

Family Hepialidae

argenteomaculatus Harris, 1841: 295, Hepholus [sic]; SYNTYPE, MCZ 26378; United States: [Massachusetts, Cambridge, Harris no. 257]; Sthenopis argenteomaculatus (Harris); Often cited as 1842, the description was originally published in 1841, and reprinted in 1842 (page 295 of both works).

labradoriensis Packard, 1864c: 394, Hepholus; HOLOTYPE [?] male, MCZ 160; Canada: Labrador, Straits of Belle Isle, Caribou Island, Salmon Bay, 3 August 1860, A. S. Packard, Jr.; Korscheltellus gra- cilis (Grote) (see Wagner, 1988); Abdomen and wings glued in place.

SUPERFAMILY NEPTICULOIDEA

Family Nepticulidae

apicidalbella Chambers, 1873: 127, Nepticula; PARA- LECTOTYPES (5), MCZ 1496; United States: Kentucky, June, Chambers; Stigmella apicidalbella (Chambers); Lectotype (USNM type 523) and 3 paralectotypes in USNM designated by Newton and Wilkinson (1982: 367).

bosquella Chambers, 1878c: 106, Nepticula; SYNTYPES (2 males), MCZ 14958; United States: Texas, Bosque County; Ectoedemia obrutella (Zeller); A male syntype in USNM (type 524).

castaneaefoliella Chambers, 1875a: 117, Nepticula; LECTOTYPE female, MCZ 14956; United States: Kentucky, Chambers; Stigmella castaneaefoliella (Chambers); Wilkinson and Scoble (1979: 46), designated the lectotype (Code, Art. 74(b)).

ciliaefuscella Chambers, 1873: 128, Nepticula; SYN- TYPE, MCZ 1301; United States: Kentucky, "at lamp," 23 August [year not stated], Chambers; Stig- mella fuscotibilla (Clemens).

clemensella Chambers, 1875: 125, Nepticula; LEC-
TOTYPE female, MCZ 14955; United States: Kentucky, Chambers; Ectoedemia clemensella (Chambers); Lectotype and paralectotype in MCZ by Wilkinson and Scoble (1979: 86).

grandisella Chambers, 1880b: 193, Nepticula; HOLIDTYPE male, MCZ 1302; United States: Texas; Ectoedemia grandisella (Chambers).

juglandifoliella Chambers, 1878c: 105, Nepticula; SYNTAXE, MCZ 1495; United States: Kentucky, Chambers; Stigmella juglandifoliella (Clemens); Chambers (1878c) used Clemens' (1861) name for "mine and adult, the mine of which was described by Clemens. Despite acknowledgement of Clemens' previous use, Chambers called his name a new species.

latifasciella Chambers, 1878c: 106, Nepticula; HOLIDTYPE female, MCZ 1497; United States: Kentucky, "on ... chestnut-trees." August, Chambers; Stigmella latifasciella (Chambers).

maculosella Chambers, 1880b: 193, Nepticula; HOLIDTYPE female, MCZ 1303; United States: Texas; Stigmella nigritverticella (Chambers); Newton and Wilkinson (1982: 425) commented on status of this name.

maximella Chambers, 1873: 126, Nepticula; SYNTAXES (2), MCZ 14951; United States: Kentucky, Chambers; Ectoedemia planatella (Clemens); Not mentioned by Wilkinson and Scoble (1979) or Wilkinson and Newton (1981).

pomivorella Packard, 1870: 237, Micropteryx; SYNTAXE, MCZ 1499; United States: Massachusetts, Salem, A. S. Packard, Jr; Stigmella pomivorella (Packard); There are two specimens, an adult ("Imm. 12 [1871]") and a cocoon ("Apple June 19"), probably from the same individual as stated by Busck (1901: 52).

quercastanella Chambers, 1873: 127, Nepticula; SYNTAXES (3), MCZ 1304; United States: Kentucky, Chambers; Stigmella saginella (Clemens).

queripulchella Chambers, 1878c: 105, Nepticula; HOLIDTYPE male, MCZ 14957; United States: Kentucky, Chambers; Stigmella queripulchella (Chambers).

resplendensella Chambers, 1875a: 118, Nepticula; LECTOTYPE, MCZ 14954; United States: Kentucky, 25 May [year not stated], Chambers; Stigmella resplendensella (Chambers); Lectotype designated by Newton and Wilkinson (1982: 456) who incorrectly stated it was in ANSP.

serotinaecella Chambers, 1873: 126, Nepticula; SYNTAXE, MCZ 1498; United States: Kentucky, Chambers; Stigmella prunifoliella (Clemens); Head and forewings only.

thoracebellula Chambers, 1873: 127, Nepticula; LECTOTYPE male, MCZ 14952; United States: Kentucky, June, Chambers; Microclyptis thoracebellula (Chambers); Wilkinson (1979: 70) designated the lectotype (Code, Art. 74(b)).

unfasciella Chambers, 1875a: 119, Nepticula; LECTOTYPE female, MCZ 1305; United States: Kentucky, Chambers; Stigmella unfasciella (Chambers); Lectotype and paralectotype also in MCZ designated by Newton and Wilkinson (1982: 440).

Family Tischeriidae

aenea Frey and Boll, 1873: 222; Tischeria; SYNTAXE, MCZ 1349; United States: Massachusetts, "Cambria B." [=Cambridge, Boll or Cambridge, Boston]; Braun (1972: 56) stated "Type, Texas (probably Dallas)[BM]", but type locality is not specified in original description, and introduction to the paper indicates most of the species were reared by Boll at Cambridge.

badiella Chambers, 1875a: 109, Tischeria; SYNTAXE, MCZ 14941; United States: Kentucky, Chambers; Braun (1972: 21) stated "Type? Kentucky (MCZ)?; Type [female] Kentucky(?), genitalia slide 9707 J.F.C. (USNM)." USNM specimen is type 516.

clemensella Chambers, 1878c: 99, Tischeria; SYNTAXE, MCZ 14940; United States: Texas; Braun (1972: 34-35) stated type locality is Kentucky as implied by Chambers (1875a: 110, 1878c: 99), but specimen is labelled "Tex."

concolor Zeller, 1875: 352, Tischeria; HOLIDTYPE female, MCZ 1348; United States: Texas, Dallas, Boll; Braun (1972: 27) stated "Type [female], Texas (MCZ).

fuscomarginella Chambers, 1875a: 110, Tischeria; LECTOTYPE male, MCZ 14938; United States: Kentucky, Chambers; Braun (1972: 35) designated the lectotype (Code, Art. 74(b)).

heliosicella Chambers, 1875a: 113, Tischeria; SYNTAXE (2), MCZ 1503; United States: Kentucky, Chambers.

lutipenella Chambers, 1878c: 97, Tischeria; HOLIDTYPE male, MCZ 14942; United States: Texas; Tischeria zelleriella Clemens.

pulvella Chambers, 1878c: 99, Tischeria; LECTOTYPE, MCZ 1505; United States: Texas; Braun (1972: 97) designated the lectotype (Code, Art. 74(b)).

purinosella Chambers, 1875a: 110, Tischeria; LECTOTYPE, MCZ 14939; United States: Kentucky, Chambers; Braun (1872: 29) designated the lectotype (Code, Art. 74(b)).

querivorella Chambers, 1875a: 109, Tischeria; SYNTAXES (5), MCZ 1506; United States: Kentucky, Chambers; Tischeria citrinipennella Clemens. 
mens; Braun (1972: 15) stated "Type [male], Kentucky (MCZ)," but no specimen was labelled lectotype.

**roseticia** Frey and Boll, 1873: 223, *Tischeria*; SYNTYPES (2), MCZ 1350; United States: Massachusetts, "Cambr.B."; See comments under *Tischeria aenea* regarding type locality.

**tinctoriella** Chambers, 1875a: 108, *Tischeria*; SYNTYPE, MCZ 150; United States: Kentucky, Chambers; *Tischeria quercitella* Clemens; Two additional specimens, labelled only "Kentucky./Chambers." may be syntypes also.

**SUPERFAMILY INCURVARIOIDEA**

**Family Incurvariidae**

**alba** Zeller, 1873: 232, *Tegeticula*; LECTOTYPE male, MCZ 2922; United States: Texas, Dallas, Boll; *Tegeticula yuccasella* (Riley); Lectotype designated by Davis (1967: 51).


**bella** Chambers, 1873: 73, *Adela*; SYNTYPE female, MCZ 1402; United States: Kentucky, May, Chambers; *Adela caerulea* Walker.


**dietziella** Kearfott, 1908: 187, fig. 6, *Incurvaria*; SYNTYPES (4), MCZ 14236; United States: New Jersey, Essex County, 30 May 1907, W. D. Kearfott; *Chalceopla dietziella* (Kearfott).

**paradoxis** Chambers, 1887c: 149, *Hyponomeuta* [sic]; LECTOTYPE male, MCZ 32959; United States: Colorado, "nine miles north of Colorado Springs and thence 5 miles east of the mountains"; *Prodoxus quinquepunctellus* (Chambers); Lectotype and four paratypotypes also in MCZ designated by Davis (1967: 76).

**5-punctella** Chambers, 1875d: 7, *Hyponomeuta* [sic]; LECTOTYPE female, MCZ 1413; United States: Texas, Bosque County; *Prodoxus quinquepunctellus* (Chambers); Lectotype designated by Davis (1967: 73).

**rheumapterella** Dietz, 1905: 37, pl. 1: fig. 4, *Incurvaria*; LECTOTYPE female, MCZ 2873; United States: Colorado, Durango; *Prodoxus coloradensis* Riley; Lectotype and paratypotype also in MCZ designated by Davis (1967: 83).

**Family Heliozelidae**

**aesella** Chambers, 1877a: 108, *Heliozelia*; HOLOTYPE, MCZ 1512; United States: Kentucky, near Covington, 24 April, Chambers; Head and right front wing only.

**amelopsifoliella** Chambers, 1874a: 168, *Antisipila*; PSEUDOTYPES (3), MCZ 1367; United States: Kentucky, Chambers; Chambers (1874: 168) states "known only in the larval state," so these cannot be types. One of the three specimens is missing from its minute.

**gracilis** Zeller, 1873: 314, *Heliozelia*; HOLOTYPE male, MCZ 1351; United States: Texas, Dallas, Boll.

**viticordifoliella** Chambers, 1874a: 168, *Antisipila*; SYNTYPES (2), MCZ 1368; United States: Kentucky, Chambers.

**SUPERFAMILY TINEOIDEA**

**Family Tineidae**

**apachella** Dietz, 1905: 7, *Amydria*; SYNTYPE female, MCZ 2904; United States: Arizona, Catalina Springs; The type series of apachella is mixed. This specimen (MCZ 2904) is *cureistrigella* Dietz. One female syntype (Williams, Arizona) of *apachella* is in USNM.

**apicisignatella** Dietz, 1905: 65, *Tinea*; SYNTYPES (2 of 3), MCZ 2862; United States: New Hampshire, Hampton and Pennsylvania, Hazleton; *Nemapogon variatella* (Clemens); Both MCZ syntypes lack abdomens and one lacks a forewing. An additional female syntype is in USNM.

**approximata** Dietz, 1905: 27, *Scardia*; PARALECOTYPES (8), MCZ 2889 and 1 PSEUDOTYPE, MCZ 2889; United States: New Jersey, Essex County (Kearfott); and Pennsylvania, Hazleton, and Meach Chunk; *Scardella approximata* (Dietz); One Hazleton, Pennsylvania, "syntype" bears a label date of "6/28 06" and therefore may not be a true type. Lectotype male and paratypotype female in USNM, designated by Robinson (1986: 109).

**argentinotella** Chambers, 1876b: 104, *Semele*; SYNTYPE female, MCZ 1400; United States: Kentucky, June, Chambers; *Homoseta argentinotella* (Chambers); No other syntypes are known.

**arizonella** Dietz, 1905: 6, *Amydria*; SYNTYPE male, MCZ 2903; United States: Arizona, Huachuca; Abdomen missing. Another male syntype (Phoenix, Arizona) in USNM.

**aurieristatella** Chambers, 1873a: 110, *Pitys*; SYNTYPE female, MCZ 1397; United States: Kentucky, Chambers; *Homoseta aurieristatella* (Chambers); No other syntypes are known.

**auristrigella** Chambers, 1875a: 86, *Tinea*; SYNTYPE male, MCZ 14943; United States: Kentucky, July, Chambers; *Isocorypha mediostriatella* Clemens; In
poor condition and glued to a paper point. No other syntypes are known.

auropluvella Chambers, 1873a: 90, Tinea; SYNTYPES (1 male, 2 females), MCZ 1391; United States: Kentucky, July; Nemapogon auropluvella (Chambers); Two additional male syntypes in USNM.

aurosuffusella Chambers, 1873a: 87, Tinea; SYNTYPE female, MCZ 1394; United States: Kentucky, Chambers; Hybroma sercoreulea Clemens; No other syntypes are known.

behrensiella Chambers, 1875b: 249, Tinea; HOLOTYPE, presumed lost, United States: California, San Francisco, J. Behrens.

bimaueella Chambers, 1873a: 87, Tinea; SYNTYPES (3 males), MCZ 1388; United States: Kentucky, Chambers; Tinea mandarinella Dietz; Chambers’ specimen is preoccupied by Thunberg, 1794.

bipunctella Dietz, 1905: 77, Progonna; HOLOTYPE female, [no MCZ number]; United States: Florida, Hastings; Mea bipunctella (Dietz); Specimen mostly destroyed, only fragments of mesothorax adhering to pin.

brevipenna Dietz, 1905: 5, Amydria; SYNTYPES (3 males), MCZ 2901; United States: District of Columbia, Washington, A. Busck; Maryland, Plummer’s sic Island, A. Busck; Additional syntypes in USNM (13) and BMNH (3).

busekiella Dietz, 1905: 12, Paraplesia; PSEUDO-TYPE female, MCZ 2892; United States: Arizona, Catalina Springs, [E. A. Schwarz]; Hypoplesia busekiella (Dietz); Dietz (1905) states that the only material examined by him was a single male (therefore the holotype) in the USNM. Consequently the MCZ "otype" and a male "otype" in LACM are not true types.

carbonella Dietz, 1905: 30, Abacobia; SYNTYPES (1 male, 4 females), MCZ 2871; United States: Pennsylvania, Hazleton, W. G. Dietz; Elatobia carbonella (Dietz); Two additional syntypes (male and female) in USNM.

cariosis Dietz, 1905: 17, Epilegis; SYNTYPE male, MCZ 2898; United States: California, Kaweah; Sektorphora rutella Zeller; Dietz described this species from two males from Kaweah, California. A female "otype" in MCZ and another female "otype" in LACM, both of which bear no locality labels, are not types.

chrysocomella Dietz, 1905: 43, Isocorypha; HOLOTYPE, MCZ 2883; United States: Kansas, Onaga. [H. Kahl].

clemensella Chambers, 1873a: 174, Xylesthis; SYNTYPES (3 males, 3 females, 2 unknown), MCZ 1384; United States: Kentucky, [Chambers]; Xylesthis pruniaramilla Clemens; Four MCZ syntypes are badly damaged with abdomens missing from three. Three additional male syntypes in USNM.

coloradella Dietz, 1905: 6, Amydria; SYNTYPES (1 male, 3 females), MCZ 2902; United States: Arizona, Santa Bita Mountains; California, Kaweah; and Colorado, Durango; Amydria effrenella Clemens; Two additional (male, female) syntypes in USNM.

confusella Dietz, 1905: 8, Amydria; SYNTYPES (6 females), MCZ 2906; United States: California, Pasadena; Two additional female syntypes in USNM.

costotrigella Chambers, 1873a: 87, Tinea; SYNTYPE male, MCZ 14947; United States: Kentucky, August and September, Chambers; Nemapogon granella (Linnaeus); Specimen in poor condition; right forewing and abdomen missing. No other syntypes are known.

crescentella Kearfott, 1907b: 9, Amydria; SYNTYPE male, MCZ 14255; United States: Arizona, Pima County, Baboquivari Mountains; Acrolophus crescentella (Kearfott); Three additional male syntypes in USNM. Presumably the fifth remaining syntype is in University of Kansas collection, Lawrence, Kansas.

cristataella Chambers, 1875b: 243, Semele; SYNTYPE male, MCZ 1401; United States: Kentucky, June, Chambers; Homoscria cristataella (Chambers); No other syntypes known.

croceoverticella Chambers, 1876b: 106, Tinea; SYNTYPE male, MCZ 1393; United States: Kentucky, Chambers; No other syntypes known.

cruciferella Dietz, 1905: 14, Paraneura; SYNTYPES (2 males), MCZ 2895; United States: California, Mountain View; Linderella tessellatella (Blanchard); One male "otype" each in LACM and USNM are pseudotypes.

curvediniella Dietz, 1905: 71, Homostinea; SYNTYPES (3 males), MCZ 2866; United States: District of Columbia, [Washington, A. Busck]; Kansas, Onaga; Louisiana, Vowell's Mill and Missouri; St. Louis; Louisiana syntype is lost (only pin and labels remaining in MCZ). One male syntype (Washington, D.C.) is also present in LACM, but a second female "otype" from Kentucky is a pseudotype.

curvisrigrella Dietz, 1905: 8, Amydria; SYNTYPE female, MCZ 2905; United States: Arizona, Phoenix; Additional male syntype in USNM.

dyarella Dietz, 1905: 11, Amydria; HOLOTYPE female, MCZ 14234; United States: Pennsylvania, Hazleton; Two female paratypes also exist, one in MCZ and one in USNM.

chrhornella Dietz, 1905: 13, Paraneura; SYNTYPES (2 males), MCZ 2894; United States: California, Mountain View; Linderella tessellatella (Blanchard).
eunitarieaeella Chambers, 1873a: 85, Tinea; SYNTYPES (2 males, 2 females), MCZ 1398; United States: Kentucky, Chambers; Eudarcia eunitarieaeella (Chambers).

fasciella Chambers, 1873a: 111, Pitys; SYNTYPE female, MCZ 1347; United States: Kentucky, Chambers; Homostea fasciella (Chambers); No other syntypes are known. Another female in extremely worn condition bearing Chambers' Kentucky label exists in MCZ, but it shows no other indications of being a syntype.

floridaella Dietz, 1905: 77, Progonia; HOLOTYPE female, MCZ 2869; United States: Florida, Hastings, Mea Skinnerella (Dietz); Holotype erroneously stated to be a male by Dietz.

fractilineella Dietz, 1905: 17, Apotomia; SYNTYPE male, MCZ 2599; United States: California, Pasadena; Setomorpha routella Zeller; Additional female syntype in USNM.

frigidella Packard, 1867: 62, Oecophora; SYNTYPES (2 females), MCZ 1549; Canada: Labrador, Caribou Island, Square Island, Niditeina fuscella (Linnaeus); Both syntypes in very poor condition with the abdomen missing from one.

fulvisulfussella Dietz, 1905: 68, Tinea; HOLOTYPE male, MCZ 2864; United States: New Hampshire, Hampton; Nemapogon variatella (Clemens); A male pseudotype from the same locality in USNM.

fuscocristatella Chambers, 1873a: 111, Pitys; SYNTYPE(S), presumed lost; United States: Kentucky; Homostea fuscocristatella (Chambers); Dietz (1905) examined the "type" of this species in the MCZ and considered it a synonym of Homostea miscecrisstatella Chambers.

fuscofasciella Chambers, 1875b: 257, euplocamus (2); LectOTYPE female, MCZ 1385; United States: Kentucky, Chambers; Montecardia fuscofasciella (Chambers); Lectotype designated by Robinson (1986: 76).

fuscocomaeella Chambers, 1873a: 58, Tinea; SYNTYPE male, MCZ 14946; United States: Kentucky, Chambers; Nemapogon granella (Linnaeus); No other syntypes known.

geniculatella Dietz, 1905: 62, Tinea; SYNTYPES (2 females), MCZ 2861; United States: California, Occidental and Pasadena; Nemapogon geniculatella (Dietz); Deposition of an additional syntype from Kaweah, California, is unknown.

griseella Chambers, 1873a: 88, Tinea; SYNTYPES (2 males), MCZ 1389; United States: Kentucky, Chambers; Niditeina fuscella (Linnaeus); One syntype in very poor condition with head, abdomen, and left forewing missing.

hybromella Chambers, 1874a: 51, Oenoe; SYNTYPE male, MCZ 1399; United States: Kentucky, Chambers; No other syntypes known.

inanoenella Zeller, 1873: 224, Setomorpha; HOLOTYPE male, MCZ 25882; United States: Texas, Dallas, Boll; Setomorpha rutella Zeller.

interstitiella Dietz, 1905: 68, Tinea; HOLOTYPE male, MCZ 2565; United States: Georgia, Forsyth; Nemapogon interstitiella (Dietz).

irrorella Dietz, 1905: 34, Monopisi; SYNTYPES (4 males, 3 females), MCZ 2582; United States: Pennsylvania, Hazleton and Mauch Chunk; Monopisi marginistrigella (Chambers); Additional syntypes in LACM (1 male, 1 female) and USNM (2 males). Deposition of syntype(s) from New York unknown.

maculatella Dietz, 1905: 84, Homostea; SYNTYPES (2 males), MCZ 2551; United States: California, Placer County; Pennsylvania, Hazleton; Homostea marginimaculata (Chambers); Syntype from Placer County, California, missing abdomen.

majorrella Dietz, 1905: 15, Setomorpha; SYNTYPES (2 females), MCZ 2896; United States: California, Pasadena; Setomorpha rutella Zeller.

marginistrigella Chambers, 1873a: 88, Tinea; SYNTYPE, MCZ 14950; United States: Kentucky, Chambers; Monopisi marginistrigella (Chambers); Specimen in very poor condition, glued to a point with only the head, prothorax, and right forewing. No other syntypes known.

margoriella Dietz, 1905: 11, Amydria; SYNTYPES (4 males), MCZ 2891; United States: Florida; Kansas, Lawrence; Texas, San Antonio; The type series appears to be mixed, with the eastern records most likely representing Amydria dyarella Dietz. Dietz (1905) mentions syntopic material in USNM, but none has been found.

minutipulvella Chambers, 1875e: 212, Tinea; SYNTYPE female, MCZ 1390; Canada; Nemapogon aerapnopennella (Clemens); Another female syntype in USNM.

miriamella Dietz, 1905: 90, Leuconeole; SYNTYPES (4 males, 2 females), MCZ 2554; United States: Maryland, Plummer's [sic] Island; Pennsylvania, Hazleton and Mauch Chunk; Two additional male syntypes in USNM and one male syntype in BMNH.

miseccristatella Chambers, 1873a: 111, Pitys; SYNTYPE female, MCZ 1395; United States: Kentucky, Chambers; Homostea miscecrisstatella (Chambers); No other syntypes known.

misecella Chambers, 1873a: 86, Tinea; SYNTYPE(S), presumed lost; United States: Kentucky; Dietz (1905) reported the poorly preserved "type" in MCZ.

molybdanella Dietz, 1905: 61, Tinea; SYNTYPES (2 females), MCZ 2580; United States: California, Pasadena; Nemapogon molybdanella (Dietz).

multimaecella Chambers, 1875c: 89, Gelechia; SYNTYPES (2 males), MCZ 1451; United States: Texas, Setomorpha rutella Zeller.
**multistriatella** Dietz, 1905: 59. *Tinea; SYNTAXYPES (2 females), MCZ 2578; [Canada: Toronto]. *Nemapogon multistriatella* (Dietz); A female syntype is also present in the LACM (Plummer's Island, Maryland). The MCZ syntypes lack locality labels.


**obliquella** Dietz, 1905: 10. *Amydra; SYNTAXYPES (2 females), MCZ 2909; United States: California, Los Angeles County, Pasadena; Additional male syntype (Los Angeles County) in USNM.

**obscura** Dietz, 1905: 52. *Homoseta; HOLOTYPE male, MCZ 14945; United States: Kansas, Ongora; *Homoseta bifasciata* (Chambers).

**occidentella** Dietz, 1905: 9. *Amydra onagella; SYNTAXYPES, presumed lost; United States: California, Mountain View and Pasadena.

**occidentella** Chambers, 1880b: 193. *Tinea tapezetta; SYNTAXYPES (1 male, 1 female?), MCZ 1392; United States: California, San Francisco; *Tinea occidentella* Chambers; According to Chambers, the type series consisted of three specimens. The location of the third syntype is unknown.

**onagella** Dietz, 1905: 9. *Amydra; SYNTAXYPES (2 males), MCZ 2908; United States: Kansas, Ongora; One syntype missing right wings.

**operosella** Zeller, 1873: 223. *Setomorpha; HOLOTYPE male, MCZ 2851; United States: Texas, Dallas, Boll; *Setomorpha rutella* Zeller; Abdomen and left wings missing.

**oprinella** Dietz, 1905: 56. *Tinea; HOLOTYPE male, MCZ 2875; United States: New York, Ithaca; *Nemapogon ophrinella* (Dietz); Left wings missing.

**orleansella** Chambers, 1873a: 85. *Tinea; SYNTAXYPE male, MCZ 14949; United States: Louisiana, New Orleans; *Niditinea orleansella* (Chambers); Syntype in poor condition, unsprayed, and glued to a point. No other syntypes known.

**pandurella** Dietz, 1905: 8. *Amydra; SYNTAXYPES (2 males), MCZ 2907; United States: Arizona, Phoenix, California, Pasadena; *Amydra curtissigrella* Dietz; Dietz stated that the type series consisted of "two specimens, [male] and [female], in my collection." A second specimen in MCZ is hereby considered a syntype even though it is also a male (i.e., sex indeterminate by Dietz) and bears no type labels. Two "cotypes" in USNM must thereby be regarded as pseudotypes. One of these (from Pasadena) is a female, but it was misidentified and is *A. confusella* Dietz.

**paradoxella** Dietz, 1905: 21. *Apreta; HOLOTYPE female, MCZ 2186; United States: California, Pasadena; Dietz (1905) misdetermined the holotype as a male.

**rileyi** Dietz, 1905: 59. *Tinea; SYNTAXYPES (3 females), MCZ 2879; United States: Pennsylvania, Hazleton; District of Columbia; Florida Hastings; *Nemapogon rileyi* (Dietz); One female syntype collected by Busck in Washington, D.C., and loaned to Dietz has been returned to USNM. The 25 specimens from Hastings, Florida (reared by Riley) were referred to by Dietz in the original description.

**roburella** Dietz, 1905: 58. *Tinea; HOLOTYPE male, MCZ 2877; United States: New Jersey, Essex County [Park], W. D. Kearfott; *Nemapogon roburella* (Dietz).

**ruderella** Zeller, 1873: 225. *Setomorpha; HOLOTYPE male, MCZ 14233; United States: Texas, Dallas, Boll; *Setomorpha rutella* Zeller.

**scardina** Zeller, 1873: 215. *Anaphora; SYNTAXYPES (2 males), MCZ 33318; United States: Texas, Dallas, Boll; *Aerolophus popeanaella* (Clemens); Two additional male syntypes in BMNH ("Carolina" and Texas).

**septemstrigella** Chambers, 1878c: 79. *Tinea; HOLOTYPE male, MCZ 1386; United States: Texas; *Augolychna septemstrigella* (Chambers).

**sepulchrella** Dietz, 1905: 74. *Tryptodema; SYNTAXYPE male, MCZ 2867; United States: Maryland, Plummer's [sic] Island, A. Busck; Three additional syntypes (2 males, 1 female) in USNM.

**signoidella** Dietz, 1905: 16. *Setomorpha; SYNTAXYPES (2 males), MCZ 2897; United States: Colorado, Glenwood Springs, Pueblo; *Setomorpha rutella* Zeller; One additional male syntype each in USNM and LACM.

**simulella** Dietz, 1905: 13. *Paraneura; SYNTAXYPE female, MCZ 2893; United States: California, Folsom and Los Angeles; *Lindera tessellatella* Blanchard; A second syntype (Los Angeles) in LACM.

**skinnerella** Dietz, 1905: 76. *Progonia; HOLOTYPE male, MCZ 2586; United States: New Jersey, Caldwell; *Mea skinnerella* (Dietz).

**straminella** Chambers, 1873a: 86. *Tinea; SYNTAXYPE(S), presumed lost; United States: Kentucky, June.

**texana** Chambers, 1873c: 79. *Anaphora; SYNTAXYPE male, MCZ 1383; United States: Texas; *Aerolophus texana* (Chambers); No other syntypes known.

**thoraestrigella** Chambers, 1876b: 106. *Tinea; SYNTAXYPE(S), presumed lost; United States: [type locality not stated].

**transversestrigella** Dietz, 1905: 20. *Semiota; SYNTAXYPES (8 males), MCZ 2900; United States: Cali-
fornia, Pasadena; *Setomorpha rutella* Zeller; Four additional male syntypes in USNM.


unomaculella Chambers, 1875b: 258, *Tinea*; SYNTYPE female, MCZ 1387; United States: Texas; No other syntypes known.

vicinella Dietz, 1905: 55, *Tinea*; HOLOTYPE female, MCZ 2885; United States: Florida, Gotha; *Ceratophaga vicinella* (Dietz); Sex given as male in original description.

visaliella Chambers, 1873a: 113, *Cyane*; SYNTYPE male, MCZ 14974; United States: Kentucky; Visalia, Chambers; *Choropleca visaliella* (Chambers); The single known syntype is badly broken with the remaining parts glued to a point.


yumaella Kearfott, 1907b: 6, *Plutella*; SYNTYPE male (1 of 16), MCZ 11858; United States: Arizona, Yuma County, Desert; *Dytopastapa yumaella* (Kearfott); Nine Yuma County syntypes in USNM; some of the remaining syntypes (other localities) at University of Kansas.

Family Lyonietaidae

albella Chambers, 1871a: 23, *Cemiosstoma*; SYNTYPES (2 of 4), MCZ 1306; United States: Kentucky, Chambers; *Paraleucoptera albella* (Chambers); One possible syntype in USNM (type 518).

albella Chambers, 1877d: 140, Eurynome; SYNTYPES (2), MCZ 1312; United States: Colorado, near Edgerton, elevation about 6,500 feet; *Philome albaella* (Chambers); Two possible syntypes in LACM.

albicapella Chambers, 1875c: 125, *Bucellastrix*; SYNTYPE (?), MCZ 14962; Canada: *Bucellastrix agnella* Chambers; Missing hind wings and abdomen. Braun (1963: 79); considered this name "an apparent transposition of syllables" of *capitealbella* Chambers. One possible syntype in USNM (type 5776).

alniella Chambers, 1875c: 303, *Lyonia*; SYNTYPES (9), MCZ 1313; United States: Colorado, "along Grand River, Clear Creek, Fall River and Fontain-quit-Bouille, in all its stages; up to 9,000 feet altitude"; Another syntype in LACM.


apicistrigella Chambers, 1875a: 105, *Lyonia*; SYNTYPE, MCZ 1314; United States: Kentucky, August, Chambers; *Lyonia speculillea* Clemens; Missing abdomen.

canadensisella Chambers, 1875e: 146, *Bucellostrix*; SYNTYPE, MCZ 1307; Canada; Missing abdomen. According to Braun (1963: 147) there is a female type in USNM (type 5775), but we could not locate it.

capitealbella Chambers, 1873a: 150, *Bucellastrix*; HOLOTYPE, MCZ 14961; United States: Kentucky, Chambers; *Bucellastrix agnella* Clemens; One "syntype" in USNM (type 519).

clemensella Chambers, 1874a: 97, Philome; SYNTYPES 7 (2 missing from pins), MCZ 1311; United States: Kentucky, Chambers; One possible syntype in USNM (type 522).

curvinicellata Packard, 1869: 354, pl. 8, fig. 16, Lithocellidae; SYNTYPE, MCZ 1347; [United States]; *Bucellastrix pomifoliella* Clemens; Broken and missing head.

fuscoscapulrella Chambers, 1878c: 104, Acanthomes; SYNTYPE, MCZ 1530; United States: Texas, Bosque County; Missing head and forewings.

inornatella Chambers, 1880b: 188, Eulyneta; SYNTYPE, MCZ 1353; United States: Texas, Belfrage; Missing left wings and abdomen.

litigiosella Zeller, 1875: 354, *Bucellastrix*; SYNTYPE (1 of 2) female (not male as stated by Zeller), MCZ 14959; United States: Texas, Dallas, Bull.

lutella Chambers, 1873a: 151, *Bucellastrix*; SYNTYPES (7), MCZ 1501; United States: Kentucky, March, Chambers; Braun (1963: 153) stated that some of these syntypes are *Bucellastrix packardella*, and that there is a female syntype at USNM (type 520) and male syntype at ANSP.

lutella Chambers, 1875c: 304, Eurynome; HOLOTYPE, MCZ 14964; United States: Colorado, Spanish Bar, 4 July; *Philome lutella* (Chambers).

magnella Chambers, 1875d: 54, *Bucellastrix*; SYNTYPES (6), MCZ 1309; United States: Kentucky, Chambers; Braun (1963: 42-43) listed only one female "type" in MCZ, and two "paratypes" in USNM.

obseurofasciella Chambers, 1873a: 150, *Bucellastrix*; SYNTYPE female, MCZ 1500; United States: Kentucky, 23 May, Chambers; *Bucellastrix trifasciella* Clemens; Braun (1963: 136-137) noted a female syntype in USNM (type 521).

packardella Chambers, 1873a: 151, *Bucellastrix*; "SYNTYPES" (2), MCZ 14960; United States: Kentucky, Chambers, Two specimens glued to the same point, labelled only "Kentucky./Chambers." and
"Type/14960." Braun (1963: 129) stated "Two specimens thus named, presumably by Chambers, in the Museum of Comparative Zoology, but not labeled types, do not represent this species."

**staintonella** Chambers, 1878d: 133, Bucceulatrix; LECTOTYPE male, MCZ 1310; United States: Colorado, Edgerton, elevation 6,000 feet; Originally described by Chambers (1877d: 141) as *B. albella*, a name preoccupied by Stainton. Lectotype designated by Braun (1963: 74).

**SUPERFAMILY GELECHIOIDEA**

**Family Oecophoridae**

[Note: The Walsingham syntypes listed below were received by Chambers from Walsingham. Lectotypes should be designated from BMNH specimens.]

**albcaiciaella** Chambers, 1878b: 77, Strobisio; HOTHOTYPE, MCZ 1548; United States: Ohio, Cincinnati; *Menesta tortriciformella* Clemens, Head and thorax only.

**albella** Chambers, 1874b: 233, Harpyalec; SYNTAXYPES (5), MCZ 1417; United States: Texas, Clifton, Belfrage; *Durraria piparretella* (Zeller).

**apiicinucella** Chambers, 1875d: 8, Hyponometa; LECTOTYPE male, MCZ 1404; United States: Texas, Basque [sic] County, Belfrage; *Ethmia apiicinucella* (Chambers); Lectotype designated by Powell (1973: 88), also paralectotype in MCZ.

**argillacea** Walsingham, 1881: 313, pl. XXXVI, fig. 2, Depressaria; SYNTAXYPE, MCZ 14975; United States: California, Tehama County, Newville; *Agonopterix argillacea* (Walsingham).

**annicella** Walsingham, 1881: 314, pl. XXXVI, fig. 3, Depressaria; SYNTAXYPE, MCZ 14976; United States: California, Mount Shasta; *Agonopterix annicella* (Walsingham).

**bicostomaculeella** Chambers, 1877a: 127, Gelechia; SYNTAXYPE male, MCZ 1461; United States: Colorado, Edgerton, July; *Tagyete decimaculeella* (Chambers); Hodges (1986: 6) transferred *decimaculella* to Oecophoridae.

**boraeella** Chambers, 1873a: 189, Oecophora; LECTOTYPE male, MCZ 1553; United States: Kentucky; *Decanta boraeellas* (Chambers); Lectotype designated by Hodges (1974: 104).

**canusella** Chambers, 1874b: 235, Harpalyce; SYNTAXYPE, MCZ 1415; United States: Texas, [13/8]; *Antaeotricha humilis* (Zeller).

**chrysurella** Dietz, 1905: 42, Breckenridgea [sic]; HOTHOTYPE male, MCZ 33274; United States: [Southwest] Colorado, ["6-28-89"]; *Ethmia albistrigella* (Walsingham).

**clemensella** Chambers, 1876b: 173, Gelechia; SYNTAXYPES (5), MCZ 1488; United States: Pennsylvania, Easton; *Agonopterix clemensella* (Chambers).

**corlyliella** Chambers, 1875b: 242, Hyala; SYNTAXYPE, MCZ 14974; United States: Kentucky, Covington, Chambers; *Menesta tortriciformella* Clemens.

**cressonella** Chambers, 1878c: 86, Cryptolechia; LECTOTYPE male, MCZ 1420; United States: Texas; *Psilocosris cryptolechii* (Chambers); Lectotype designated by Hodges (1974: 92), also 2 paralectotypes in MCZ.

**difficilisella** Chambers, 1872a: 66, Evagora; SYNTAXYPE male, MCZ 1528; United States: Kentucky, Chambers; *Tagyete attribuella* (Walker); Hodges (1986: 6) transferred *attribuella* to Oecophoridae.

**discostrigella** Chambers, 1877d: 122, Anesychia; LECTOTYPE male, MCZ 1421; United States: Colorado, Edgerton, 6,500 feet; *Ethmia discostrigellli* (Chambers); Lectotype designated by Powell (1973: 95), also 4 paralectotypes in MCZ.

**cupatoriella** Chambers, 1878c: 82, Depressaria; SYNTAXYPE, MCZ 1432; United States: Kentucky, Chambers; *Agonopterix cupatoriella* (Chambers).

**faginella** Chambers, 1872a: 131, Hagnio; LECTOTYPE male, MCZ 1419; United States: Kentucky, Chambers; *Psilocosris cryptolechii* (Chambers); Lectotype designated by Hodges (1974: 92), also 4 paralectotypes in MCZ.

**fernalddella** Chambers, 1878c: 82, Depressaria; Possible SYNTAXYPES (2); United States: Maine; *Ma-chimia tenteriferellla* Clemens; Two specimens with no type labels may be types; one is labelled "Me"; "47" [pencil]; "fernaldella/Chb" [Chambers pen]; "Ma-chimia[/tenteriferella]/AB May 1900"; the other "L.I." [pencil, illegible]; "Kentucky[crossed out]/Chambers," "22" [Chambers hand].

**fernalddella** Rice, 1859: 155, Setiostoma; SYNTAXYPES (2 of 12), MCZ 11907; United States: California, Los Angeles County; Other syntypes in USNM; Lectotype should be designated from USNM specimen.

**hagenella** Chambers, 1878c: 80, Anesychia; LECTOTYPE male, MCZ 1422; United States: Texas, Bosque County; *Ethmia hagenellli* (Chambers); Lectotype designated by Powell (1973: 110), also paralectotype in MCZ.

**lithosina** Zeller, 1873: 244, Cryptolechia; HOTHOTYPE male, MCZ 1717; United States: Texas, Dallas, Boll, *Antaeotricha unipunctella* (Clemens).

**longimaculella** Chambers, 1872a: 43, Hyponometa; LECTOTYPE male, MCZ 1463; United States: Kentucky, Chambers; *Ethmia longimaculella* (Chambers); Lectotype designated by Powell (1973: 178), also 4 paralectotypes in MCZ.
mirusella Chambers, 1874b: 233, Anesychia; LECTOTYPE male, MCZ 1423; United States: Texas, Belfrage; Ethmia mirusella (Chambers); Lectotype designated by Powell (1973: 193), also 4 paralecotypes in MCZ.

multipunctella Chambers, 1874b: 233, Anesychia; LECTOTYPE male, MCZ 1425; United States: Texas, Waco, Bellrage; Ethmia semilugens (Zell-er); Lectotype designated by Powell (1973: 86), also 13 paralecotypes in MCZ.

nebeculosa Zeller, 1873: 245, fig. 12, Cryptolechia; SYNTAXYPES (4), MCZ 1720; United States: Texas, Dallas, Boll; Antaeotricha humilis (Zeller).

novi-mundi Walsingham, 1881: 318, Depressaria; SYNTAXYPE, MCZ 14971; United States: California and Oregon; Exaereta thoraceniciragra (Chambers).

nubiferella Walsingham, 1881: 316, pl. XXXVI, fig. 6, Depressaria; SYNTAXYPE, MCZ 14977; United States: Oregon, Rogue River; Agonopterix nubi-ferella (Walsingham).

obscuramacula Chamber, 1878c: 86, Cryptolech-ia?; SYNTAXYPE, MCZ 1418; United States: Texas, Bosque County, [11/8]; Inga obscuramacula (Chambers); Another syntype in USNM (Hodges, 1974: 102).

piperatella Zeller, 1873: 239, Cryptolechia; HOLOTYPE male, MCZ 1719; United States: Texas, Dallas, Boll; Durrantia pipera-tella (Zeller).

posticella Walsingham, 1881: 315, pl. XXXVI, fig. 5, Depressaria; SYNTAXYPE, MCZ 14972; United States: California and Oregon; Agonopterix posticella (Walsingham).

quinqueferella Walsingham, 1881: 322, Glyphite-ryx [sic]; PARALECOTYPE (?), MCZ [no number]; United States: California; Fabiola quinqueferella (Walsingham); Designated a paralecotype by Heppner (1978: 49), but, as noted by Heppner (1984: 338), it might not be one of the original syntypes.

shaleriella Chambers, 1875a: 114, Occophora; SYNTAXYPE, MCZ 1552; United States: Kentucky; Chambers; Fabiola shaleriella (Chambers); Head and thorax only.

texanella Chambers, 1880b: 180, Hyponomeuta; LECTOTYPE, MCZ 1406; United States: Texas; Ethmia zelleriella (Chambers); Lectotype designated by Powell (1973: 113).

thoracefasciella Chambers, 1875b: 246, Gelechia; SYNTAXYPE, MCZ 1465; United States: California; Exaereta thoracefasciella (Chambers).

thoracenigraella Chambers, 1875b: 246, Gelechia; SYNTAXYPE, MCZ 1466; United States: California; Exaereta thoracenigraella (Chambers); Fragments in capsule.

tortricella Chambers, 1874b: 255, Harpallege; SYNTAXYPES (3), MCZ 1416; United States: Texas; Antaeotricha unipunctella (Clemens).

trifurcella Chambers, 1873: 12, Anesychia; LECTOTYPE female, MCZ 1426; United States: Kentucky, Chambers; Ethmia trifurcella (Chambers); Lectotype designated by Powell (1973: 194).

umbiatricostella Walsingham, 1881: 318, pl. XXXVI, fig. 8, Depressaria; SYNTAXYPE, MCZ 14973; United States: California and Oregon; Exaereta umbraticostella (Walsingham).

vestalis Zeller, 1873: 247, Cryptolechia; HOLOTYPE female, MCZ 1718; United States: Texas, Dallas, Boll; Antaeotricha vestalis (Zeller).

xanthobasis Zeller, 1875: 324, Setistomata; HOLOTYPE female, MCZ 33256; United States: Texas, Dallas, Boll; Rectistomata xanthobasis (Zeller).

zelleriella Chambers, 1878c: 80, Hyponomeuta; LECTOTYPE female, MCZ 1405; United States: Texas, Bosque County; Ethmia zelleriella (Chambers); Lectotype designated by Powell (1973: 113).

Family Elachistidae

parvipulvella Chambers, 1875d: 56, Elachista; PSEUDOTYPES (4), MCZ 1513; United States: Texas; Braun (1948: 51) stated that none of the 4 MCZ specimens is an Elachista and that the real type is in USNM.

stuintonella Chambers, 1878c: 96, Elachista; SYNTAXYPE male, MCZ 1514; United States: Texas.

Family Blastobasidiae

David Adamski

ampla Dietz, 1900a: 103, pl. VI, fig. 1, Plouto-phiara; SYNTAXYPES (4 males), MCZ 2925; Adamski gen. slide nos. 2159, 2160, 2161; United States: Pennsylvania, Hazleton; 1 syntype missing abdomen; 1 male erroneously labeled as "type" (no. 6135) in USNM (Adamski gen. slide no. 2471).

angustipennella Dietz, 1900a: 108, Pigritia; SYNTAXYPES (5), MCZ 2930, Adamski gen. slide nos. 2166 (male), 2167 (male), 2168 (female); 1 syntype missing abdomen; 1 syntype not dissected; United States: Pennsylvania, Hazleton; 1 male erroneously labeled as "type" (no. 6137) in USNM (Adamski gen. slide no. 2473).

anneetella Dietz, 1910: 63, pl. IV, fig. 34a, Holocera-zelleriella var.; SYNTAXYPES (2 females of 3), MCZ 2932, Adamski gen. slide nos. 2150, 2151; United States: Iowa, Iowa City; Louisiana, Vowell's Mill; 1 syntype lost.

annulipes Dietz, 1910: 58, Holocera crescentella var.; HOLOTYPE female, MCZ 2950; United States:
Arizona, Bahoyquivaria [sic] Mountains; Abdomen missing.

argyreella Dietz, 1900a: 113, Pseudopigritia; HOLOTYPE: male, MCZ 2920; Adamski gen. slide no. 2201; United States: Pennsylvania, Hazleton.

argyrosplendella Dietz, 1910: 22, pl. II, figs. 13, 13a, 13b, Calosoma; SYNTYPES (3 of 3), MCZ 2968, 1 male, 1 female; Adamski gen. slide nos. 2059, 2060; United States: Pennsylvania; Hazleton; Florida, Hastings; Louisiana, Vowell's Mill; Syntype from Louisiana missing abdomen.

arizonella Dietz, 1900a: 109, Pigritia; SYNTYPES (2 of 2 males), MCZ 2912; Adamski gen. slide nos. 2169, 2170; United States: Arizona, Huachuca, and Nochales [sic].

aufugella, 1873: 301, Blastobasis; HOLOTYPE, MCZ 14978; United States: Texas, [Dallas], Boll; Pigritia laeticapitata Clemens; Abdomen missing.

basilarabella Dietz, 1900a: 105, pl. VI, fig. 6, Pigritia; SYNTYPES (3 of 3), MCZ 2928; Adamski gen. slide no. 2171 (female); United States: Pennsylvania; Hazleton; Kansas, Lawrence; Iowa; 2 syntypes missing abdomens.

basipallidella Dietz, 1910: 26, Holocera divers var.; SYNTYPES (2 of 3), MCZ 2951, 1 male and 1 female; Adamski gen. slide nos. 2082, 2085; United States: Pennsylvania, Hazleton, New Hampshire, Hampton; 1 syntype from Cohasset, Massachusetts in USNM (Adamski gen. slide no. 2434 — male).

borescella Dietz, 1910: 47, pl. III, fig. 22, Holocera; SYNTYPES (4 of 5), MCZ 2960, females; Adamski gen. slide nos. 2064, 2065, 2066; R. B. Selander gen. slide no. 701; United States: New Hampshire, Webster; Canada: Montreal, 1 syntype lost.

busckiella Dietz, 1910: 36, pl. II, fig. 19, Holocera; SYNTYPES (2 males of 7), MCZ 2956; Adamski gen. slide nos. 2067, 2068; United States: Maryland, Plummer's [sic] Island, July and August 1903, A. Busck; 5 syntypes in USNM; 1 male dissected (Adamski gen. slide no. 2424), 4 without abdomens.

canariella Dietz, 1900a: 118, pl. VII, fig. 17, Dryope; HOLOTYPE, male, MCZ 14226; Adamski gen. slide no. 2212; United States: California, Sonoma County; Dryopeira canariella (Dietz).

confetellata Zeller, 1873: 303, Hypatoma; HOLOTYPE female, MCZ 2983; United States: Texas, [Dallas], Boll; Valentinia confetella (Zeller); Abdomen missing.

confluentella Dietz, 1910: 36, pl. II, fig. 18, Holocera; SYNTYPES (2 of 4), MCZ 2955, female; Adamski gen. slide no. 2156; 1 syntype missing abdomen; United States: Pennsylvania, Hazleton; Central New York, Holocercina confluentella (Dietz); 1 syntype from Cohasset, Massachusetts, in USNM (Adamski gen. slide no. 2429 — female), 1 syntype lost.

confusella Dietz, 1900a: 104, pl. VI, fig. 4, Pigritia; SYNTYPES (4), MCZ 2925; Adamski gen. slide nos. 2172 (female), 2173 (male), 2174 (female); 1 syntype not dissected; United States: Pennsylvania, [Hazleton]; 1 syntype from [Moutclair], New Jersey, in USNM (type no. 6131) (Adamski gen. slide no. 2476 — female).

crescentella Dietz, 1910: 57, pl. IV, fig. 31, Holocera; HOLOTYPE female, MCZ 2949; Adamski gen. slide no. 2081; United States: Utah, Stockton, T. Spalding.

dianella Dietz, 1910: 22, Calosoma; HOLOTYPE male, MCZ 2969; Adamski gen. slide no. 2061; United States: Georgia, Forsyth, 1895.

discopuntellata Dietz, 1900a: 118, pl. VII, fig. 16, Dryope; HOLOTYPE female, MCZ 14223; Adamski gen. slide no. 2213; United States: Pennsylvania, Hazleton; Dryopeira discopuntellata (Dietz).

dives Dietz, 1910: 26, pl. II, fig. 14 (male), Holocera; SYNTYPES (2 of 7), MCZ 2951, females; Adamski gen. slide nos. 2083, 2084; United States: Pennsylvania, Hazleton, Maryland, Plummer's [sic] Island, Canada: Toronto; 3 syntypes from Charleroi, Pennsylvania in USNM (Adamski gen. slide nos. 2431, 2433 (females) and 2432 (male)); 1 syntype lost.

dorsomaucellula Dietz, 1900a: 112, pl. VII, fig. 10, Pseudopigritia; SYNTYPES (2 of 2), MCZ 2917, male and female, both specimens missing abdomens, United States: Pennsylvania, Hazleton.

dryelloa Dietz, 1910: 49, pl. III, fig. 25, Holocera; SYNTYPES (7 of 17), MCZ 2941; Adamski gen. slide no. 2086 (female), 2087 (male), 2088 (male), 2089 (female); United States: Connecticut, East River, C. R. Ely, Maryland, Plummer's [sic] Island, A. Busck, and Frederick, New Jersey, Essex County, W. D. Kearfott; Specimens comprising remainder of original syntype series cannot be determined.

equitella Dietz, 1900a: 112, Pseudopigritia; SYNTYPES (3 females), MCZ 2918; Adamski gen. slide nos. 2204, 2205; 1 syntype missing abdomen; United States: Pennsylvania, Hazleton.

estriatella Dietz, 1910: 28, pl. II, fig. 15, Holocera; HOLOTYPE male, MCZ 2970; Adamski gen. slide no. 2090; United States: Massachusetts, [Cohasset].

fenyesella Dietz, 1900a: 119, Dryope; HOLOTYPE female, MCZ 14224; Adamski gen. slide no. 2214; United States: California, Pomona, A. Fenyes; Dryopeira fenyesella (Dietz).

fidella Dietz, 1900a: 103, pl. VI, figs. 2, 2a (male), 2b (female), 2c (male), Plioephora; SYNTYPES (5), MCZ 2924; Adamski gen. slide nos. 2162 (male),
2163 (female), 2164 (female); two syntypes not dissected; United States: Pennsylvania, Hazleton; 1 syntype and 1 specimen erroneously labeled as “type” (type no. 6126) in USNM (Adamski gen. slide no. 2472, 2473 — males).

floridella Dietz, 1910: 17, pl. I, fig. 10, Valentinia; SYNTYPES (1 of 4), MCZ 2966, female (no abdomen); United States: Florida, Crescent City, [male] cone of Zamia integrifolia; 3 syntypes (male and 2 females) in USNM; 1 dissected (Adamski gen. slide no. 2415 — male), 1 male erroneously labeled as "cotyphy", MCZ 2966, from Florida, G. D. Hulst Collection.

fluxella Zeller, 1873: 301. Blastobasis; HOLOTYPE male, MCZ 1711; Adamski gen. slide no. 2091; United States: Texas, [Dallas], Boll; Holocera fluxella (Zeller).

fraternella Dietz, 1900a: 113, pl. VII, fig. 11, Pseudopogritia; HOLOTYPE male, MCZ 2919; Adamski gen. slide no. 2207; United States: Pennsylvania, Hazleton.

fumerella Dietz, 1910: 35, Holocera chalcofronella var.: SYNTYPES (6), MCZ 2954, females; Adamski gen. slide nos. 2074, 2075, 2076; 3 specimens not dissected; United States: [Pennsylvania, Hazleton], bred from fruit racemes of sumach.

funebra Dietz, 1910: 44, Holocera; SYNTYPES (2 of 5), MCZ 2092, Adamski gen. slide no. 2092 (male); United States: Maryland, Plummer’s [sic] Island, 1903, A. Busck; Pennsylvania, Hazleton; 3 syntypes from Plummer’s [sic] Island, Maryland in USNM (not dissected).

fuseopurpurella Dietz, 1910: 9. Blastobasis plummerella var.: HOLOTYPE female, MCZ 2962; Adamski gen. slide no. 2962; United States: Maryland, Plummer’s [sic] Island; Blastobasis plummerella Dietz.

fuseosuffusella Dietz, 1900a: 117, pl. VII, fig. 13, Dryope; SYNTYPES (2 of 2), MCZ 14222, male and female; Adamski gen. slide nos. 2215, 2216; United States: Missouri, St. Louis; Dryope fuscousfusella (Dietz).

gigantella Chambers, 1876b: 219, Blastobasia; LECOTOTYPE male, MCZ 1551; J. A. Powell gen. slide no. 4008; United States: Colorado; Holocera gigantella (Chambers); Lectotype and 3 paralecotypes in MCZ designated by Powell (1976). One other specimen from Colorado is at MCZ, may not be part of original series.

grisella Dietz, 1900a: 116, pl. VII, figs. 12, 12a, 12b (male), 12c (female), Dryope; SYNTYPE male, MCZ 14225; Adamski gen. slide no. 2218; United States: Pennsylvania, Hazleton; Missouri, Saint Louis; Dryope fuscusfusella (Dietz); At least 1 syntype lost; 1 syntype from collection of C. V. Riley in USNM (no. 743).

heidemannelia Dietz, 1900a: 111, pl. VII, fig. 9, Epidrigita; SYNTYPES (2 of 7), MCZ 2916, females; Adamski gen. slide no. 2208; 1 syntype missing left hindwing, right forewing, and abdomen; United States: Pennsylvania, Bedford County, Sulfur Springs, on Abies excelsa, O. Heidemann; Epidrigita ochrocomella (Clemens); 1 syntype in USNM (type no. 6133) (Adamski gen. slide no. 2483 — male); 4 syntypes lost.

hulstella Dietz, 1910: 7, pl. I, fig. 2, Blastobasis; HOLOTYPE female, MCZ 2977; Adamski gen. slide no. 2042; United States: Texas, G. Hulst.

iceryaeella Riley, 1887: 485. Blastobasis; SYNTYPES (4?), possible syntypes in MCZ; Adamski gen. slide nos. 2097, 2098 (1 male, 1 female); United States: California, Los Angeles County, Pasadena; Holocera iceryaeella (Riley); At least 1 syntype from Alameda Co. and Los Angeles Co., California in USNM.

illibella Dietz, 1910: 57, pl. III, fig. 30, Holocera; SYNTYPES (3 of 3), MCZ 2948, 2 males; Adamski gen. slide nos. 2101, 2102; United States: Maryland, Frederick; 1 syntype missing abdomen.

inclusa Dietz, 1910: 51, pl. III, fig. 27, Holocera; HOLOTYPE male, MCZ 2943; Adamski gen. slide no. 2103; United States: Pennsylvania, Hazleton, 20 July 1904.

insulatella Dietz, 1910: 50, pl. III, fig. 26, Holocera; SYNTYPES (2 of 2 males), MCZ 2942; Adamski gen. slide nos. 2104, 2105; United States: Colorado, Glenwood Springs, August.

interpunetella Dietz, 1910: 67, pl. IV, fig. 39, Holocera; SYNTYPES (3 of 3), MCZ 2938, 2 males, 1 female; Adamski gen. slide nos. 2107, 2108, 2909; United States: Utah, Stockton, T. Spalding.

livorella Zeller, 1873: 299. Blastobasis; HOLOTYPE male, MCZ 2082; Adamski gen. slide no. 2110; United States: Texas, [Dallas], Boll; Holocera livorella (Zeller).

luteopulvella Chambers, 1875d: 73, Dryope; SYNTYPE female, MCZ 1438; Adamski gen. slide no. 2178; United States: Kentucky, Chambers; Pigritia laticapitella Clemens.

mediofasciella Dietz, 1900a: 107, pl. VI, fig. 5, Pigrtia; HOLOTYPE female, MCZ 2927; Adamski gen. slide no. 2179; United States: [Pennsylvania, Hazleton], July.

melanostriatella Dietz, 1910: 66, pl. IV, fig. 38, Holocera; SYNTYPES (7 of 9), MCZ 2937, 2 males; Adamski gen. slide nos. 2111, 2112; 5 syntypes missing abdomens; United States: Pennsylvania, Hazleton; Connecticut, East River, C. R. Ely; Maryland, Frederick; 2 syntypes from Frederick, Maryland, and East River, Connecticut, are lost.

messelinella Dietz, 1910: 52, pl. III, fig. 29, Holocera.
ceras; SYNTYPES (2 of 2 males), MCZ 2945; Adamski gen. slide nos. 2115, 2116; United States: Maryland, Frederick, Florida, Hastings.

**minnicella** Dietz, 1900a: 116, pl. VII, fig. 15. Dryope; SYNTYPES (5 of 5), MCZ 14221; Adamski male gen. slide no. 2229, 2230 (3 syntypes not dissected); United States: Georgia, Forsyth; Dryopeira minnicella (Dietz); 1 syntype without "cotybe" label, or lost.

**minorella** Dietz, 1910: 34, pl. II, fig. 17e. Holocera chalcofronella var.; SYNTYPES (4 of 6), MCZ 2953, female; Adamski gen. slide no. 2077; 3 syntypes not dissected; United States: Pennsylvania, Lewisburg, Chestnut burrs; 2 syntypes lost.

**murtfeldtella** Chambers, 1874a: 50. Dryope; SYNTYPES (14), MCZ 1437; Adamski gen. slide nos. 2234 (male), 2235 (female); 5 syntypes with damaged or missing abdomens; 4 syntypes not dissected; United States: Kentucky; Dryopeira murtfeldtella (Chambers).

**nubilella** Zeller, 1873: 297, fig. 36. Blastobasis; HLOTYPE female, MCZ 1714; Adamski gen. slide no. 2054; United States: Texas, [Dallas], Valentinia glandularella (Riley).

**obscurella** Dietz, 1900a: 110, Pigritia; SYNTYPES (2 of 2), MCZ 2914; Adamski gen. slide no. 2180 (male); 1 syntype missing abdomen; United States: Pennsylvania, Hazleton.

**occidentella** Dietz, 1900a: 115, pl. VII, fig. 14. Dryope; HLOTYPE female, MCZ 11500; United States: California, Kewatch; Dryopeira occidentella (Dietz); Missing left forewing and abdomen.

**ochrocephala** Dietz, 1910: 31. Holocera; POSSIBLE SYNTYPE male, MCZ 2952; Adamski gen. slide no. 2123; United States: Maryland, [Plummer's Island]. Male syntype from Aurora, West Virginia in USNM (Adamski gen. slide no. 2455).

**ornatella** Dietz, 1900a: 107, pl. VI, fig. 7, Pigritia; SYNTYPES (7 females, 1 male), MCZ 2929; Adamski gen. slide nos. 2182, 2183, 2184, 2186, 2187 females, 2185 male; 2 syntypes not dissected; United States: Pennsylvania, Hazleton; 1 specimen erroneously labeled as "ornatella" in USNM (Adamski gen. slide no. 2480 — female); 1 erroneously sexed syntype in MCZ.

**pallidotinetella** Dietz, 1900a: 111, pl. VII, fig. 8, 8a (male), Sb (female). Epigrinia; SYNTYPES (2 of 3), MCZ 2915; both specimens missing abdomens; United States: Pennsylvania, Hazleton; Epigrinia ochromella (Clemens); Male erroneously labeled as cotybe in USNM (Adamski gen. slide no. 2482); 1 syntype lost.

**plagiataella** Dietz, 1910: 40, pl. III, fig. 20. Holocera; HLOTYPE male, MCZ 2957; Adamski gen. slide no. 2124; United States: Arizona, [Williams].

**plummerella** Dietz, 1910: 8, pl. I, fig. 4. Blastobasis; SYNTYPES (2 males of 6), MCZ 2961; Adamski gen. slide no. 2043 (one specimen missing abdomen); United States: Maryland, Plummer's [sic] Island; 3 syntypes in USNM (not dissected); 1 syntype lost.

**pulchella** Dietz, 1910: 20, pl. II, figs. 12, 12a. Euresia; HLOTYPE male, MCZ 2967; Adamski gen. slide no. 2058; United States: District of Columbia, Washington.

**purpurella** Dietz, 1900a: 105, Pigritia; SYNTYPES (3 of 3 females), MCZ 2926; Adamski gen. slide nos. 2188, 2189, 2190; United States: Pennsylvania, Hazleton.

**pusilla** Dietz, 1910: 65, pl. IV, fig. 37. Holocera; HLOTYPE male, MCZ 2935; Adamski gen. slide no. 2139; United States: Texas, Brownsville.

**quaintanceella** Dietz, 1910: 15, pl. I, fig. 9, Valentinia; SYNTYPES (2 females of 6), MCZ 2965; Adamski gen. slide nos. 2055, 2056; United States: locality unknown, bred from apple, Quaintance; 4 syntypes in USNM; 1 dissected (Adamski gen. slide no. 2416 — female), 2 missing abdomens, 1 with broken ovipositor.

**quisquiliella** Zeller, 1873: 298, Blastobasis; SYNTYPES (3 of 3), MCZ 1712, 1 male and 2 females; Adamski gen. slide nos. 2072, 2073; United States: Texas, [Dallas], Boll; Holocera chalcofronella quisquiliella (Zeller); 1 female is missing abdomen.

**reductella** Dietz, 1910: 45. Holocera funebra var.; SYNTYPES (1 of 2), MCZ 2959, Adamski gen. slide no. 2095 (male), Canada: Manitoba, Awerne, Criddle, 1 syntype in USNM (missing abdomen).

**rufopunctella** Dietz, 1910: 65. Holocera; HLOTYPE female, MCZ 2936; Adamski gen. slide no. 2140; United States: Colorado, Denver, Oslar.

**sagitella** Dietz, 1910: 9, pl. I, fig. 5, Blastobasis; HLOTYPE male, MCZ 2964; Adamski gen. slide no. 2046; United States: Pennsylvania, Hazleton [Aug. 2, 1898].

**seaphilella** Zeller, 1873: 295, fig. 34. Blastobasis; HLOTYPE male, MCZ 1713; Adamski gen. slide no. 2141; United States: Texas, [Dallas], Boll; Holocera seaphilella (Zeller).

**simplicella** Dietz, 1910: 9. Blastobasis plummerella var.; HLOTYPE male, MCZ 2963; Adamski gen. slide no. 2045; United States: Iowa, Iowa City; Specimen originally misidentified as female.

**simulella** Dietz, 1910: 52, pl. III, fig. 28. Holocera; SYNTYPES (2 of 4), MCZ 2944, female; Adamski gen. slide no. 2143; 1 syntype missing abdomen; United States: Arizona, Williams; Texas, Feda; 1 syntype from Williams, Arizona in USNM (Adamski gen. slide no. 2459 — female); syntype from Stockton, Utah lost.
spoliatella Dietz, 1900: 110, Pigritia; SYNTYPES (2 of 2 males), MCZ 2913; Adamski gen. slide nos. 2191, 2192; 1 syntype missing left forewing and abdomen; United States: Pennsylvania, Hazleton; An additional damaged MCZ specimen is probably not a syntype. 1 specimen erroneously labeled cotype in USNM.

spoliatella Dietz, 1910: 53, Holocera messetinella var.; SYNTYPES (3 of 6), MCZ 2946, 3 males; Adamski gen. slide nos. 2117, 2118, 2119; United States: Pennsylvania, Hazleton; Holocera messetinella Dietz; 3 syntypes lost including those from New Jersey.

spretella Dietz, 1910: 58, pl. IV, fig. 32, Holocera; SYNTYPE (1 of 4), MCZ 2931; Adamski gen. slide no. 2145 — female; United States: Arizona, Phoenix; 3 syntypes from Williams, Arizona in USNM (Adamski gen. slides nos. 2144 — female, 2140 — male).

subsenella Zeller, 1873: 302, Hypatima punctiferalia var.; HOLIDOTY male. MCZ 1716; Adamski gen. slide no. 2126; United States: Texas, [Dallas], Boll; Holocera punctiferalia subsenella (Zeller); Missing left wings; right forewing in gelatin capsule.

tartarella Dietz, 1910: 64, pl. IV, fig. 36, Holocera; SYNTYPES (3 of 9), MCZ 2934, 1 male, 1 female; Adamski gen. slide nos. 2140, 2147; 1 not dissected; United States: Maryland, Plummer’s [sic] Island, A. Bucsk, 5 syntypes in USNM; 2 missing abdomens; 1 dissected (Adamski gen. slide no. 2261 — male); 3 syntypes lost.

tenebrrella Dietz, 1900a: 116, Dryope; SYNTYPES (2 of 3), MCZ 14220, 1 male, Adamski gen. slide no. 2233; United States: Pennsylvania, Hazleton; Dryope tenebrrella (Dietz); 1 syntype missing abdomen; 1 syntype lost.

triangularisella Chambers, 1875b: 256, Holocera; SYNTYPE (1 male of 2) MCZ 1550; Adamski gen. slide no. 2142; United States: [Kentucky, Chambers]; Holocera scaphidella (Zeller).

tristella Dietz, 1900a: 108, Pigritia; SYNTYPES (2 of 2 females) MCZ 2911; Adamski gen. slide nos. 2193, 2194; United States: Pennsylvania, Hazleton; 1 specimen erroneously labeled as “type” (type no. 6132) in USNM.

vestaliella Dietz, 1910: 63, pl. IV, fig. 35, Holocera; SYNTYPES (3 of 6), MCZ 2935, all missing abdomens; United States: Maryland, Plummer’s [sic] Island, Pennsylvania, Hazleton; 2 male syntypes from Plummer’s Island, Maryland (R. B. Sander gen. slide no. 705 and Adamski gen. slide no. 2469) in USNM; 1 syntype from Cohasset, Massachusetts, lost.

yuecaecolella Dietz, 1910: 7, pl. I, fig. 3, Blastohasis; SYNTYPES (2 of 5), MCZ 2979, male and female; Adamski gen. slide nos. 2047, 2048; United States: Texas, bred from Yucca baccata, emerged 18 April 1897; 3 syntypes in USNM (not dissected).

zelleriella Dietz, 1910: 62, pl. IV, fig. 34, Holocera; SYNTYPES (2 of 2 males), MCZ 2081; Adamski gen. slide nos. 2148, 2149; United States: Texas, Dallas; Only 1 male has locality label.

Family Mophididae

albocapitella Chambers, 1875d: 33, Laverna; SYNTYPE, MCZ 1374; United States: Texas, Basque [sic] County, September; Mompha murtfeldtella (Chambers).

bicristatella Chambers, 1880b: 187, Elachista; SYNTYPE, MCZ 1355; United States: Texas, Belfrage; Mompha bicristatella (Chambers).

cephalonthiella Chambers, 1871b: 221, Laverna; SYNTYPES (6), MCZ 1372; United States: Kentucky, Chambers; Mompha cephalonthiella (Chambers).

circumscriptella Zeller, 1873: 312, fig. 42, Laverna; PSEUDOTYPES, MCZ 1380; United States: Texas, Dallas, Boll; Mompha circumscriptella (Zeller).

coloradella Chambers, 1877d: 136, Laverna(?) SYNTYPE, MCZ 1379; United States: Colorado, Edgerton, July; Mompha coloradella (Chambers).

definitella Zeller, 1873: 111, fig. 41, Laverna; SYNTYPE, MCZ 1377; United States: Texas, Dallas, Boll; Mompha definitella (Zeller).

grisseella Chambers, 1875c: 295, Laverna; PSEUDOTYPES (2), MCZ 14970; Mompha murtfeldtella (Chambers); MCZ has 2 specimens from Kentucky, but description was based on 3 specimens from Spanish Bar, Colorado.

ignobilisella Chambers, 1875d: 33, 51, Laverna; SYNTYPE, MCZ 1519; United States: Texas, Basque [sic] County, September; Mompha ignobilisella (Chambers).

murtfeldtella Chambers, 1875b: 237, Laverna; HOLIDOTY, MCZ 1375; United States: [Missouri, 15 September 1874, Murfleld]; Mompha murtfeldtella (Chambers).

obsecursella Chambers, 1875d: 53, Laverna; HOLIDOTY, MCZ 1371; United States: Texas, Basque [sic] County; Mompha murtfeldtella (Chambers).

oentheraemenenella Chambers, 1876b: 138, Laverna; SYNTYPE, MCZ 14969; United States: Missouri; Mompha brevisetella (Clemens).

tricristatella Chambers, 1875c: 211, Leucophryne; SYNTYPE, MCZ 1381; Canada; Mompha tricristatella (Chambers).

unifasciella Chambers, 1876b: 159, Laverna; SYNTYPE, MCZ 1378; United States: California; Mom-
pha unifasciella (Chambers); Missing hindwings and abdomen.

Family Agonoxenidae

bicristatella Chambers, 1875c: 210, Gelechia; SYNTYPES (2), MCZ, 1459; Canada; Blastodaenia bicristatella (Chambers).

bipunctella Chambers, 1880: 187, Aeta; SYNTYPE, MCZ 1360; United States: Texas.

Family Cosmopterigidae

albalineella Chambers, 1878c: 95, Erphia?; HOLLOTYPE female, MCZ 14965; United States: Texas, Bosque County; Eralea albalineella (Chambers).

concolorella Chambers, 1875d: 55, Elachista?; HOLLOTYPE female, MCZ 1352; United States: Texas, Bosque County; Periplura orichalella (Clemens).

concolorella Chambers, 1875d: 55, Erphia; LECTOTYPE male, MCZ 1356; United States: Texas; Ithome concolorella (Chambers); Lectotype designated by Hodges (1961b: 87), also 3 paralectotypes in MCZ.

determinatella Zeller, 1873: 289, Oecophora; HOLLOTYPE male, MCZ 1710; United States: Texas; Tricholenia determinatella (Zeller).

eransella Chambers, 1874a: 52, Perimeade; HOLLOTYPE, MCZ 1521; United States: Kentucky, Covington, Chambers; Description based on one specimen, but 4 specimens present in MCZ.

gleditschiaella Chambers, 1876b: 135, Laverna(?) (Anybia?); LECTOTYPE male, MCZ 1373; United States: Kentucky, Chambers; Periplura gleditschiaella (Chambers); Lectotype designated by Hodges (1962a: 88), also paralectotype in MCZ.

miscecolorella Chambers, 1875d: 51, Laverna; LECTOTYPE male, MCZ 1370; United States: Texas, Bosque County; Walshia miscecolorella (Chambers); Lectotype designated by Hodges (1961a: 70).

montisella Chambers, 1875c: 297, Cosmopteryx [sic]; HOLLOTYPE, MCZ 14967; United States: Colorado, Spanish Bar; Cosmopterix montisella Chambers.

nigrilineella Chambers, 1878c: 96, Erphia?; HOLLOTYPE male, MCZ 1357; United States: Texas, Bosque County; Melanocinclus nigrilineella (Chambers).

ostryaella Chambers, 1874a: 74, Aeca; HOLLOTYPE male, MCZ 14966; United States: Kentucky; Stilbothis ostryaella (Chambers).

purpuriella Chambers, 1874a: 73, Chrysopoeleia; SYNTYPES (3), MCZ 1358; United States: Kentucky.

quadrustellata Chambers, 1880b: 186, Aeca; HOLLOTYPE male, MCZ 1359; United States: Texas, Waco; Stilbothis quadrustellata (Chambers).

4-linecella Chambers, 1878c: 95, Cosmopteryx [sic]; HOLLOTYPE female, MCZ 1518; United States: Texas, Bosque County; Cosmopterix quadrilinecella Chambers.

sexnotella Chambers, 1875c: 58, Gelechia; HOLLOTYPE, MCZ 1542; United States: Texas, Bosque County; Stagmatophora sexnotella (Chambers).

unimaculella Chambers, 1875d: 94, Ithome; LECTOTYPE male, MCZ 1520; United States: Texas; Ithome unimaculella (Chambers); Lectotype designated by Hodges (1961b: 87), and paralectotype in MCZ.

Family Scythrididae

albapenella Chambers, 1875d: 11, Butalis; SYNTYPE male, MCZ 1516; United States: Texas, Basque [sic] County, October; "Scythis" albapenella (Chambers) [misplaced]; Specimen in poor condition, missing left wings, and part of thorax.

arizoniellae Kearfott, 1907: 8, Holococera; SYNTYPE, MCZ 15022; United States: Arizona, Phoenix, October, Kunze; Scythis eburnea (Walsingham).

immaculatella Chambers, 1875d: 10, Butalis; SYNTYPE, MCZ 1515; United States: Texas, Basque [sic] County, April; Scythis imposistella (Zeller).

plausipennella Chambers, 1875d: 10, Butalis; SYNTYPE, MCZ 1517; United States: Texas, Basque [sic] County; Scythis plausipennella (Chambers); Missing left wings.

Family Gelechiidae

albimarginella Chambers, 1875c: 291, Gelechia; SYNTYPE male, MCZ 2992; United States: Colorado, Grand River; Gnornischema albimarginella (Chambers); Abdomen and left wings missing. Specimen (MCZ 2992) probably is incorrectly labelled Kentucky. It matches a specimen from West Fork of Oak Creek, Coconino County, Arizona; and the type locality is Grand River, Colorado.

albistrigella Chambers, 1872a: 171, Gelechia; "SYNTYPES" (2), MCZ 1522; United States: Kentucky, June, Chambers; Untomia albistrigella (Chambers); Untomia albistrigella was described from a single specimen; one of the specimens is a false type.

amorphaeella Chambers, 1877a: 124, Gelechia; SYNTYPES (3 of 4), MCZ 1480; United States: Colorado, Edgerton, Chambers, Filatma ornati-fimbriella (Clemens).
anarsiella Chambers, 1877a: 126, Gelechia; SYNTYPES (8), MCZ 1484; United States: Colorado, Edgerton, Chambers.

apicistrigella Chambers, 1872a: 66, Parasia; HOLOTYPE female, MCZ 1523; United States: Kentucky, Chambers; Battaristis nigratamella (Clements); Specimen lacks abdomen and right hindwing.

atrupictella Dietz, 1900: 350, Eucordyle; HOLOTYPE male, MCZ 2986; United States: Pennsylvania, Hazleton; Coleotechnites atrupictella (Dietz).

basifasciella Zeller, 1873: 269, Gelechia (Poecilia?); HOLOTYPE male, MCZ 2988; United States: Texas, Boll; Pseudotelphusa basifasciella (Zeller).

basistrigella Zeller, 1873: 270, Gelechia; HOLOTYPE female, MCZ 2981; United States: Texas, Boll; Xenolechia basistrigella (Zeller).

bifasciella Chambers, 1874a: 76, Gelechia; SYNTYPE male, MCZ 1362; United States: Kentucky, Chambers; Theiacon anistrigella (Zeller).

bifidella Dietz, 1900: 351, Nealyda; SYNTYPE male, MCZ 2990; United States: Colorado, Glenwood Springs.

bimaculella Chambers, 1877d: 122, Nothris?; HOLOTYPE male, MCZ 1557; United States: Colorado, Edgerton; Dichomeris georgiella (Walker).

bimaculella Chambers, 1872a: 108, Depressaria; SYNTYPE female, MCZ 1524; United States: Kentucky, Chambers; Fascista bimaculella (Chambers).

biminimaculella Chambers, 1880b: 183, Gelechia; SYNTYPES (2), MCZ 1525; United States: Texas, Waco, Belfrage; Filatima biminimaculella (Chambers).

bicolorella Chambers, 1872a: 195, Agnipe; SYNTYPE female, MCZ 1281; United States: Kentucky, Chambers.

bosquella Chambers, 1875d: 92, Oecophora; SYNTYPE female, MCZ 1443; United States: Texas; Stegasta bosqueella (Chambers); Right hindwing missing.

canopolvella Chambers, 1878c: 91, Gelechia; HOLOTYPE female, MCZ 1452; United States: Texas, Bosque County; Filatima obscurosuffusella (Chambers).

cerecerisella Chambers, 1872a: 108, Depressaria; SYNTYPES (2), MCZ 1427; United States: Kentucky, Chambers; Fascista cerecerisella (Chambers); Specimens are double mounted on one block of pith. Male lacks head; female lacks left forewing and abdomen.

ciliarineella Chambers, 1874b: 242, Gelechia; SYNTYPE, MCZ 1428; United States: Texas; Isophrichites ciliarineella (Chambers).

collinusella Chambers, 1877d: 128, Gelechia; HOLOTYPE male, MCZ 1526; United States: Colorado, Edgerton; Gnartinoschema collinusella (Chambers); Right wings only.

concinuscella Chambers, 1875b: 253, Gelechia; SYNTYPES (2), MCZ 1460; United States: Texas; Battaristis concinuscella (Chambers).

consonella Zeller, 1873: 251, Gelechia; SYNTYPE male, MCZ 2982; United States: Texas, Boll; Anacampsis hoefractella (Clemens).

costarufoella Chambers, 1874b: 240, Gelechia; LECTOTYPE, MCZ 1527; United States: Texas, Chambers; Dichomeris costarufoella (Chambers); Lectotype designated by Hodges (1986: 114).

crescentifasciella Chambers, 1874b: 237, Gelechia; SYNTYPES (7), MCZ 1477; United States: Texas; Consopolechia crescentifasciella (Chambers).

cristatella Chambers, 1875b: 241, Gelechia; SYNTYPES (2), MCZ 1472; United States: Kentucky, Chambers; Coleotechnites cristatella (Chambers).

cristifasciella Chambers, 1878c: 87, Gelechia; SYNTYPE female, MCZ 1474; United States: Kentucky, November [no year stated], Chambers; Argorea crisifasciella (Chambers); Worn specimen. Described from two syntypes.

curvistrigella Chambers, 1872a: 133, Telphusa; SYNTYPE female, MCZ 2939; United States: Kentucky, Chambers; Telphusa longifasciella (Clemens); Abdomen missing.

depressosstrigella Chambers, 1874b: 236, Gelechia; SYNTYPES (2), MCZ 1434; United States: Texas; Filatima ochreosuffusella (Chambers).

disconotella Chambers, 1878c: 86, Gelechia; SYNTYPE, MCZ 1475; United States: Kentucky, Chambers; Monochroa disconotella (Chambers); Left wings missing.

discoocellella Chambers, 1872a: 194, Gelechia; SYNTYPES (4), MCZ 1439; United States: Kentucky, September, Chambers; Chionodes discoocellella (Chambers).

dorsivittella Zeller, 1873: 265, fig. 20, Gelechia (Telelia?); HOLOTYPE male, MCZ 1707; United States: Texas, Dallas, Boll; Coleotechnites vagatovella (Chambers); Haustellum and abdomen missing.

dubitella Chambers, 1872a: 92, Depressaria?; LECTOTYPE male, MCZ 1529; United States: Kentucky, Chambers; Dichomeris juncifolia (Clemens); Lectotype designated by Hodges (1986: 111).

elegantella Chambers, 1874b: 239, Gelechia; SYNTYPES (8), MCZ 1494; United States: Texas, Chambers; Aristotelia elegantella (Chambers).

cupatioriella Chambers, 1872a: 221, Ypsilonus; LECTOTYPE male, MCZ 1531; United States: Kentucky, Chambers; Dichomeris setosella (Cle-
mens); The original description indicates that one specimen was reared; it should be the holotype. None of the specimens bearing MCZ 1531 could be recognized as the one that Chambers described. Hodges (1986: 82) designated one of the four as lectotype.

**fragmentella** Zeller, 1873: 271. Gelechia (Poeceilia?); HOLOTYPE female, MCZ 1706; United States: Texas. Dallas, Boll; *Pseudotiphuta quercingraecella* (Chambers); Specimen lacks right wings and abdomen.

**fuscoeristatella** Chambers, 1875d: 9. Naera; SYNTYPES (4), MCZ 1382; United States: Texas.

**fuscoluteella** Chambers, 1872a: 106. Depressaria; HOLOTYPE male, MCZ 1462; United States: Kentucky. Chambers; *Gelechia albisparsella* (Chambers); Abdomen missing.

**fuscomaculella** Chambers, 1872a: 170. Gelechia; HOLOTYPE male, MCZ 1469; United States: Kentucky. Chambers; *Chionodes fuscomaculella* (Chambers).

**fuscoochrella** Chambers, 1872a: 106. Gelechia; SYNTAXE female, MCZ 1532; United States: Kentucky. Chambers; *Chionodes mediofuscella* (Clemens).

**fuscopalidella** Chambers, 1875b: 231. Sinoe; SYNTAXES (3), MCZ 1533; United States: Kentucky. Chambers, *Sinoe robinella* (Fitch); One specimen has the left forewing; the other specimen has the right forewing.

**fuscopulvella** Chambers, 1872a: 195. Agnippe; HOLOTYPE male, MCZ 1282; United States: Kentucky. April, Chambers.

**fuscopulvella** Chambers, 1872a: 170. Gelechia; HOLOTYPE female, MCZ 1492; United States: Kentucky. June, Chambers; *Chionodes obscursella* (Chambers).

**fuscostrigella** Chambers, 1876b: 30. Polyhymno; HOLOTYPE male, MCZ 1547; United States: Texas. Belfrage; *Polyhymno lusteostrigella* Chambers; Abdomen missing; labial palpus nearly devoid of scales ventrally.

**fusotaeniaella** Chambers, 1878c: 89. Gelechia; HOLOTYPE male, MCZ 1448; United States: Texas. *Rifseria fusotaeniaella* (Chambers); Head, thorax, and left wings only.

**giviscopella** Zeller, 1873: 266. Gelechia; SYNTAXES (2), MCZ 1708; United States: Texas, Dallas, Boll; *Colyeotechnites quercicorella* (Chambers).


**glycyphizaecella** Chambers, 1877a: 124. Gelechia; HOLOTYPE female, MCZ 1483; United States: Colorado, Edgerton; *Filatina glycyphizaecella* (Chambers); Abdomen missing.

**innocuaella** Zeller, 1873: 249. Gelechia (Tachyptilia); SYNTAXES male, MCZ 1721; United States: Texas, Boll; *Anacampsis inocuaella* (Zeller).

**intermediella** Chambers, 1879a: 89. Gelechia; HOLOTYPE female, MCZ 1447; United States: Texas, Bosque County; *Aristotela intermediella* (Chambers); Labial palpi, metathorax, and abdomen missing.

**inversella** Zeller, 1873: 248. Epicorythylis; HOLOTYPE male, MCZ 1715; United States: Texas, Boll; *Dichomeris inversella* (Zeller).

**latifasciella** Chambers, 1875b: 251. Gelechia; PSEUDOTYPE female, MCZ 2940; United States: Missouri, St. Louis; *Telphusa latifasciella* (Chambers); The original description indicates that the moth is light. The specimen (MCZ 2940) is dark and represents the dark form of *latifasciella*.

**lavernella** Chambers, 1874b: 242. Gelechia; HOLOTYPE female, MCZ 1475; United States: Texas; Symmetrical schema *laternella* (Chambers).

**leuconota** Zeller, 1873: 268. Gelechia; HOLOTYPE female, MCZ 2973; United States: Texas, Boll; *Euphle leuconota* (Zeller).

**liturosella** Zeller, 1873: 265. Gelechia; HOLOTYPE female, MCZ 1475; United States: Texas; Symmetrical schema *laternella* (Chambers).

**luteostrigella** Chambers, 1874b: 247. Polyhymno; PSEUDOTYPE female, MCZ 1546; United States: Texas; The specimen (MCZ 1546) is a Coleophora. The original description applies to the current concept of the gelechid species Polyhymno luteostrigella.

**maculimarginella** Chambers, 1874b: 241. Gelechia; SYNTAXES (2), MCZ 1446; United States: Texas; *Chionodes fuscomaculella* (Chambers).

**marmorrella** Chambers, 1875b: 239. Gelechia; HOLOTYPE, MCZ 1471; United States: Kentucky, Chambers; *Gnorimoschema emanicipatum* (Meyrick); REVISED STATUS; *Gelechia marmorrella* Chambers, 1875 is a junior primary homonym of *Gelechia marmorrella* Doubleday, 1859. *Plthorimae emanicipata* Meyrick, 1925 is an objective replacement name for *Gelechia marmorrella* Chambers, 1875.

**minimaecella** Chambers, 1874b: 235. Gelechia; HOLOTYPE male, MCZ 1485; United States: Texas; *Aroga thoracicalbella* (Chambers).

**minimella** Chambers, 1874b: 243. Gelechia; SYNTAXES (2), MCZ 1457; United States: Texas; *Aristotela pullusella* (Chambers).

**monumentella** Chambers, 1877d: 125. Gelechia; HOLOTYPE male, MCZ 1482; United States: Colo-
rado, Monument Park; *Scrobipalpa monumentella* (Chambers).

**multifasciella** Chambers, 1875d: 93, *Theisoa*; SYNTYPE, MCZ 1563; United States: Texas.

**nigrella** Chambers, 1875b: 250, *Gelechia*; PSEUDOTYPE, MCZ 1489; United States: Texas; *Synopaca nigrella* (Chambers); The single, abdomenless specimen does not match the original description.

**nonstrigella** Chambers, 1878c: 92, *Dasyccera*; HOLOTYPE male, MCZ 1544; United States: Kentucky, Chambers; *Dichomeris nonstrigella* (Chambers).

**obliquifasciella** Chambers, 1880b: 182, *Gelechia*; HOLOTYPE male, MCZ 1470; United States: Texas; *Telphusa longifasciella* (Clemens).

**obliquistrigella** Chambers, 1872a: 65, *Anarsia*; SYNTAXES (2), MCZ 1535; United States: Kentucky, Chambers; *Coleotechnites obliquistrigella* (Chambers).

**obscurosusfluselula** Chambers, 1878c: 90, *Gelechia*; SYNTAXE female MCZ 1453; United States: Texas, Bosque County; *Filatima obscurosusfluselula* (Chambers); Abdomen and left forewing missing.

**obscurosella** Chambers, 1872a: 106, *Depressaria*; SYNTAXE male, MCZ 1632; United States: Kentucky, Chambers; *Chionodes obscurosella* (Chambers).

**occidentella** Chambers, 1875b: 246, *Gelechia*; SYNTAXE female, MCZ 1464; United States: California, Behrens; *Chionodes occidentella* (Chambers).

**oeleilla** Chambers, 1877a: 126, *Gelechia?*; HOLOTYPE male, MCZ 1440; United States: Colorado, Edgerton; *Gelechia biaunella* (Chambers); The holotype is a male, not a female as indicated by Chambers.

**ochreocostella** Chambers, 1878c: 91, *Gelechia*; HOLOTYPE female, MCZ 1455; United States: Texas, Bosque County; *Anacaomps rhoifruetella* (Clemens).

**ochreostrigella** Chambers, 1875b: 247, *Gelechia*; HOLOTYPE male, MCZ 1463; United States: California, Behrens; *Chionodes ochreostrigella* (Chambers); Abdomen missing.

**ochreostrigella** Chambers, 1877a: 126, *Gelechia*; SYNTAXES (3), MCZ 2995; United States: Colorado, Edgerton; *Scrobipalpa henshawavii* (Busck); The syntypes represent two species.

**olympiadella** Zeller, 1873: 259, *Gelechia*; PSEUDOTYPES 2 males, MCZ 292l; United States: Texas; *Fascista cercerisella* (Chambers); These specimens were not seen by Zeller when he described the species.

**pallidastrigella** Chambers, 1874b: 244, *Cleodora*; SYNTAXE, MCZ 1561; United States: Texas, *Isochristis pallidastrigella* (Chambers).

**pallidella** Chambers, 1874b: 245, *Cleodora*; SYNTAXES (2), MCZ 1562; United States: Texas, *Isochristis pallidella* (Chambers); The specimens are very poor and probably represent two species.

**pallidocherella** Chambers, 1872a: 126, *Depressaria*; HOLOTYPE female, MCZ 1536; United States: Kentucky, May, Chambers; *Symmetrischema pallidocherella* (Chambers).

**pallidocherella** Chambers, 1873a: 188, *Helicea*; SYNTAXES (4), MCZ 1620; (13), MCZ 1534; United States: Kentucky, Chambers; *Theisoa pallidocherella* (Chambers); Two MCZ type numbers with associated specimens represent the same species.

**palpiannulella** Chambers, 1872a: 68, *Gelechia*; SYNTAXES (4), MCZ 1493; United States: Kentucky, Chambers; *Monochroa absconditella* (Walker).

**palpilineella** Chambers, 1875b: 252, *Gelechia*; SYNTAXES (3), MCZ 1486; United States: Kentucky, Chambers; *Synopaca palpilineella* (Chambers).

**pedmontella** Chambers, 1877a: 123, *Gelechia*; HOLOTYPE male, MCZ 1478; United States: Colorado, Edgerton; *Gnorimoschema pedmontella* (Chambers).


**physaliella** Chambers, 1872a: 173, *Gelechia*; SYNTAXE female, MCZ 33255; United States: Kentucky, Chambers; *Aristotelia physaliella* (Chambers); Chambers described *physaliella* from two specimens reared from *Physalis viscosa* L. The specimen in the MCZ was received from the Peabody Academy collection. A second syntype is in USNM.

**platanella** Chambers, 1872a: 146, *Cirrha*; PSEUDOTYPE male, MCZ 1430; United States: Kentucky, Chambers; *Gelechia albisparsella* (Chambers); *Cirrha platanella* Chambers is a replacement name for *Depressaria albisparsella* Chambers and as such does not have a separate type from the name it replaces. However, no type material of *albisparsella* exists. This specimen could be considered for designation as neotype of *albisparsella*. It has only the head, thorax, and right forewing.

**plutella** Chambers, 1874b: 238, *Gelechia*; PSEUDOTYPES (2), MCZ 1429; United States: Kentucky; *Dichomeris serratiwittella* (Zeller); These specimens are from Kentucky, not Texas as stated in the original description, and the color pattern on the forewings is reversed from that of the original description.
plutella Chambers, 1874b: 244, Neda; SYNTYPES (2), MCZ 1369; United States: Texas; *Megasacris pedus plutella* (Chambers); Another syntype in USNM.

plutella Chambers, 1875d: 106, Phaetusa; PSEUDOTYPES (2), MCZ 1429; United States: Kentucky; *Eriope leuconota* (Zeller); These specimens are from Kentucky, not Texas as stated in the original description. One female syntype in USNM.

prunifoliella Chambers, 1873a: 186, Evippe; SYNTAXYPE male, MCZ 1537; United States: Kentucky, Chambers.

pseudaceiella Chambers, 1872a: 107, Depressaria; SYNTYPES (11), MCZ 1490; United States: Kentucky, Chambers; *Filatima pseudaceiella* (Chambers).

pubidunella Zeller, 1873: 273, Aristotelia; LECTOTYPE male, MCZ 1441; United States: Texas, Dallas, Boll; Lectotype designated by Forbes (1932: 429).

quadriramula Chambers, 1874b: 237, Gelechia; LECTOTYPE male, MCZ 1436; United States: Texas; *Anacampsis rhoifrustella* (Clemens); The lectotype, present designation, bears the following labels: 1) *Type 1436*; 2) *Gelechia quadriramulata* Cham. Texas”; 3) “Anacampsis rhoifrustella Clem. = quadriramula Cham. AB 1902”; 4) *Lectotype R. W. Hodges*. It is selected to ensure that the name continues to be associated with *Anacampsis rhoifrustella* (Clemens). The second syntype is a species of *Neodactylota*.

querciella Chambers, 1872a: 127, Depressaria; SYNTYPES (3), MCZ 1538; United States: Kentucky, Chambers; *Neotelphusa querciella* (Chambers).

querciella Chambers, 1872a: 223, Ypsolophus; PSEUDOTYPE female, MCZ 1560; United States: Kentucky, Chambers; *Dichomeris centrella* (Fitch); The identification label reads “*Ypsolophus quercecola var. pomatella* 482/1”, and the specimen is *Dichomeris ligulella* Huebner. The original description of *querciella* clearly states that the wings are broad and thus does not apply to this specimen.

quercinigracella Chambers, 1872a: 170, Gelechia; LECTOTYPE male, MCZ 1701; United States: Kentucky, Chambers; *Pseudotelphusa quercinigracella* (Chambers); Abdomen and right wings missing.

quercipominella Chambers, 1872a: 222, Ypsolophus; LECTOTYPE female, MCZ 1560; United States: Kentucky, Chambers; *Dichomeris ligulella* Huebner.

quercivorella Chambers, 1872a: 173, Gelechia; LECTOTYPE female, MCZ 1539; United States: Kentucky, Chambers; *Coleotechnites quercivorella* (Chambers).

quinqueannulella Chambers, 1872a: 191, Gelechia; HOLOTYPE female, MCZ 1467; United States: Kentucky, Chambers; *Trupanisana prudens* Clemens.

reedella Chambers, 1872a: 222, Ypsolophus; SYNTYPES (3), MCZ 1559; United States: Kentucky, Chambers; *Dichomeris ligulella* Huebner; The three specimens are the same species.

rheesella Chambers, 1875c: 290, Gelechia; HOLOTYPE female, MCZ 2994; United States: Colorado, Spanish Bar, Clear Creek.

rileyella Chambers, 1872a: 106, Depressaria; SYNTAXYPE male, MCZ 1431; United States: Kentucky, Chambers; *Gelechia rileyella* (Chambers).

rubensella Chambers, 1872a: 193, Gelechia; PSEUDOTYPES (5), MCZ 1449; United States: Kentucky, Chambers; *Aristotelia rubidella* (Clemens); The status of these specimens as types is questionable. Chambers described *rubensella* from a single specimen that had its fringes singed by a gas light. None of these is singed.

rufusella Chambers, 1874b: 240, Gelechia; SYNTYPES (3), MCZ 1444; United States: Texas; *Anacampsis fialonella* (Zeller).

saphirinella Chambers, 1875b: 250, Gelechia; HOLOTYPE, MCZ 1468; United States: Kentucky, Chambers; *Gnorimoschema saphirinella* (Chambers); Labial palpi, right hindwing, and abdomen missing. The right forewing is glued on a block. Although the original description implies Texas as the type locality, the label states “Kentucky./Chambers.”

saundersella Chambers, 1876b: 173, Gelechia; SYNTYPES (2), MCZ 1540; United States: Kentucky, Chambers; *Taggete saundersella* (Chambers).

scutellariaecla Chambers, 1873a: 175, Gelechia; SYNTAXYPE male, MCZ 1541; United States: Kentucky, Boone County, Verona; *Scrobipalpa scutellariaecla* (Chambers).

sella Chambers, 1874b: 238, Gelechia; LECTOTYPE male, MCZ 1481; United States: Texas; *Deltophora sella* (Chambers); Lectotype designated by Sattler (1979: 294).

serratipalpella Chambers, 1877a: 123, Gelechia; HOLOTYPE male, MCZ 1479; United States: Colorado, Edgerton; *Gnorimoschema serratipalpella* (Chambers); The abdomen is glued to the rest of the specimen.

serrativittella Zeller, 1873: 280, Gelechia; PARALECTOTYPE female, MCZ 1705; United States: Texas, Dallas, Boll; *Dichomeris serratvittella* (Zeller); Lectotype female in BMNH designated by Hodges (1986: 101).
sextrigella Chambers, 1874b: 248, Polyhymno?; SYNTYPES (3), MCZ 1545; United States: Texas; Calliprorra sextrigella (Chambers).

solaniella Chambers, 1873a: 176, Gelechia; PSEUDOTYPE female, MCZ 2453; Isophrictis similitella (Chambers); Gelechia solaniella Chambers is a replacement name for Gelechia similitella Chambers, 1872.

straminiella Chambers, 1872a: 224, Ypsolophus; LECTOTYPE female, MCZ 1558; United States: Kentucky, Chambers; Dicheeloriscus punctidiscella (Clemens), Lectotype designated by Hodges (1986: 54).

ternariella Zeller, 1873: 264, Gelechia (Lita); HOLOTYPE female, MCZ 1702; United States: Texas, Boll; Fascista bimaculella (Chambers).

texanella Chambers, 1880b: 179, Anesychia; LECTOTYPE male, MCZ 1424; United States: Texas; Lita texanella (Chambers); Lectotype designated by Hodges (1966: 30).

thoracealbella Chambers, 1874b: 235, Gelechia; SYNTYPE male, MCZ 1435; United States: Texas, Waco, Belfrage; Aroga thoracealbella (Chambers).

trialbamaeculla Chambers, 1875b: 250, Gelechia; HOLOTYPE female, MCZ 1456; United States, Texas, Waco, Belfrage; Aroga trialbamaeculla (Chambers); Head and right wings missing.

trifasciella Chambers, 1875b: 252, Gelechia; SYNTYPES (2), MCZ 1445; United States: Texas, Waco, Belfrage; Filatima albiflorella (Zeller).

trilinecella Chambers, 1877a: 125, Gelechia; SYNTYPES (6), MCZ 1454; United States: Colorado, Edgerton; Aroga trilinecella (Chambers); One syntype is not conspecific with the other five.

trimaculella Chambers, 1874b: 243, Anarsia; LECTOTYPE male, MCZ 1536; United States: Texas, Waco, Belfrage; Isophrictis trimaculella (Chambers); The lectotype, present designation, bears the following labels: 1)"Type 1536"; 2)"Texas"; 3)"72"; 4)"996"; 5)"trimaculella"; 6)"Lectotype R.W. Hodges"; 7)"RWH genitalia slide 3314." It is selected to ensure continued use of the name in Isophrictis. Three species are represented among the syntypes.

trimaculella Chambers, 1874b: 238, Gelechia; PARALECTOTYPES (3), MCZ 1476; United States: Texas, Waco, Belfrage; Helicostogramma melanocearpum (Meyrick); Lectotype in USNM designated by Hodges (1986: 130).

trimaculella Packard, 1867: 61, Gelechia; SYNTYPES (2), MCZ 1563; Canada: Labrador, Strawberry Harbor; Chionodes continuella (Zeller).

tricelcella Chambers, 1877a: 127, Gelechia; SYNTYPES (6), MCZ 1453; United States: Colorado, Edgerton; Gnorimoschema tricelcella (Chambers).

unetulella Zeller, 1873: 257, Gelechia; HOLOTYPE male, MCZ 1703; United States: Texas, Boll; Filatima ornatispinifera (Clemens).

variella Chambers, 1872a: 174, Gelechia; SYNTYPES (2 of several), MCZ 1544; United States: Kentucky, Chambers; Coleotecchnites variella (Chambers); One female syntype is in USNM.

versutella Zeller, 1873: 253, Gelechia; HOLOTYPE female, MCZ 1457; United States: Texas, Boll.

violaceofusca Zeller, 1873: 258, Gelechia; HOLOTYPE male, MCZ 2981; United States: Texas, Dallas, Boll; Chionodes discocelicella (Chambers).

walsinghami Dietz, 1900b: 352, Pseudochelaria; SYNTYPE male, MCZ 3266; United States: Pennsylvania, Hazleton.

SUPERFAMILY COPROMORPHOIDEA
Family Glyphipterigidae

exoptatella Chambers, 1875b: 234, Glyphipteryx [sic]; HOLOTYPE, MCZ 1564; United States: Kentucky, Linden Grove Cemetery, [June], Chambers; Diploschistia impigrillata (Clemens); Heppner (1981: 322) gives type locality as "[Covington?, Kenton Co.]."

montisella Chambers, 1875c: 292, Glyphipteryx [sic]; LECTOTYPE male, MCZ 32857; United States: Colorado, Denver, South Park, 10,000 feet; Glyphipteryx montisella Chambers; Lectotype designated by Heppner (1985: 124).

SUPERFAMILY YPONOEMUTOIDEA
Family Plutellidae

NOTE: The Walsingham syntypes in this family were sent to Chambers by Walsingham. We suggest that lectotypes should be selected from syntypes at the BMNH because Walsingham’s personal collection is there. He most likely sent syntypes (a term not used in the 1880s) to Chambers as examples of his species. Types (holotypes and lectotypes in current terms) he would have retained.

canariella Walsingham, 1881: 309, pl. XXXV, fig. 11; Ctenomia; SYNTYPES (2), MCZ 14952; United States: California, Lake County, Scott’s Valley, 15 May 1871; Ypsolophia canariella (Walsingham).

castella Walsingham, 1881: 310, pl. XXXV, fig. 13; Euceratia; SYNTYPES (2), MCZ 14984; United States: California, San Francisco.
dentiferella Walsingham, 1881: 308, pl. XXXV, fig. 10. Cerostoma; SYNTYPES (2), MCZ 14985; United States: California, Mount Shasta, August 1871; Ypsolopa dentiferella (Walsingham).

falciferella Walsingham, 1881: 307, pl. XXXV, fig. 7. Cerostoma; SYNTYPE (1 of 18), MCZ 14988; United States: California and Oregon; Ypsolopa falciferella (Walsingham).

frustella Walsingham, 1881: 309, pl. XXXV, fig. 12. Cerostoma; SYNTYPES (2 of 26), MCZ 14981; United States: California, Shasta County, 28 July 1871; Ypsolopa frustella (Walsingham).

ochrella Chambers, 1880b: 181. Plutelloptera; SYNTYPE, MCZ 1414; United States: Texas, Belfrage; Ypsolopa ustella (Clemons); Missing left wings.

polita Walsingham, 1881: 302, pl. XXXV, fig. 2. Calantica; SYNTYPES (2), MCZ 14992; United States: California; Eucalanica polita (Walsingham).

securella Walsingham, 1881: 311, pl. XXXV, fig. 14. Euceraeata; SYNTYPE (1 of 17), MCZ 14983; United States: California, Sonoma County, May 1871.

subasciella Walsingham, 1881: 303, pl. XXXV, fig. 3. Araeolepia; PARALECTOTYPE (1 of 17), MCZ 14986; United States: Oregon, Currant Creek (an affluent of John Day River), 16 April 1872; Lectotype in BMNH designated by Heppner (1982: 278).

vanella Walsingham, 1881: 305, pl. XXXV, fig. 6. Plutella; SYNTYPE, MCZ 14987; United States: California, San Francisco.

Family Yponomeutidae


crassivenella Zeller, 1872: 563, fig. 27. Enacma; HOLOTYPE female, MCZ 15001; United States: Texas, Dallas, Boll; Lectura pupula (Huebner).

Family Argyresthiidae

alitissimella Chambers, 1877d: 130, 147. Argyresthia; SYNTYPE, MCZ 1412; United States: Colorado, Mount Elbert, 11.000 feet, July.

austerella Zeller, 1873: 305, fig. 38. Argyresthia; SYNTYPES (3 of 6), MCZ 14254; United States: Texas, Dallas, Boll.

belangerella Chambers, 1875c: 145, Argyresthia; SYNTYPE, MCZ 1407; Canada, Missing right wings.

delella Zeller, 1873: 305. Argyresthia; SYNTYPES (3), MCZ 14254; United States: Texas, Dallas, Boll.

dentella Chambers, 1877d: 130, Argyresthia; SYNTYPE, MCZ 1411; United States: Colorado, Edgerton, July.


quadrigistrigella Zeller, 1873: 304. Argyresthia; HOLOTYPE male, MCZ 14252; United States: Texas, Dallas, Boll; Missing abdomen.

quercicolella Chambers, 1877d: 130. Argyresthia; SYNTYPES (2), MCZ 1410; United States: Colorado, Edgerton, June.

thiuiella Packard, 1871: 24, pl. 1, fig. 6. Buceulatrix; SYNTYPES, MCZ 14963; United States: Maine, Brunswick, July, on cedar tree; Argyresthia thiuelia (Packard); Fragments of several specimens in vial.

undulatella Chambers, 1874a: 10. Argyresthia; SYNTYPES (6), MCZ 1408; United States: Kentucky, Chambers.

Family Heliodinidae

abroniaella Chambers, 1876b: 217. Lithariapteryx; SYNTYPES (9), MCZ 1565; United States: Colorado, Edgerton, over 6000 feet, July.

bella Chambers, 1875d: 73. Aetole; SYNTYPE, MCZ 1564; United States: Texas, August, Belfrage; He biodines bella (Chambers).

SUPERFAMILY SESIOIDEA

Family Sesidae

aureopurpura H. Edwards, 1880: 72. Aegeria; HOLOTYPE female, MCZ 928; United States: Texas, Dallas, Boll; Carmenta bassiformis (Walker).

caudata Harris, 1839: 311. Aegeria; SYNTYPES (1 male, 1 female), MCZ 26354; United States: Massachusetts, Neponset River, 30 August 1823; Harris no. 87; Alcathoe caudata (Harris).

cucurbitae Harris, 1828: 33. Aegeria; SYNTYPES (5 adults and 5 pupil cases), MCZ 33258; United States: [Harris no. 249]; Melittia cucurbitae (Harris).

denudatum Harris, 1839: 310. Trochilium; SYNTYPE, MCZ 26359; United States: [Harris no. 311]; Sesia asilipennis (Boisduval).

fulvipes Harris, 1839: 312. Aegeria; SYNTYPE, MCZ 26361; United States: [Harris no. 17]; Synanthedon fulvipes (Harris).


marginatum Harris, 1839: 309. Trochilium; SYN-
amphorana Walsingham, 1879: 63, pl. LXXIV, fig. 9; Semasia; SYNTYPES (2), MCZ 15006; United States: Oregon, John Day River, Camp Watson, April, Walsingham; Planeta amphorana (Walsingham).

angleana Kearfott, 1907a: 64, Enammonia; PARALECTOTYPE, MCZ 15014; United States: New Jersey, Anglesea, V-00 (?), W. D. Kearfott; Grapholitha angleana (Kearfott); Lectotype in AMNH designated by Klots (1942: 398); see also Heinrich (1926: 31).

bobana Kearfott, 1907a: 26, Eucosma; PARALECTOTYPE, MCZ 14322; United States: Texas, Harris County, 7-5-1899; Described from three syntypes. Heinrich (1923: 105) designated the Salida, Colorado, specimen as lectotype; it is in USNM, not AMNH as he indicated. The third specimen, from Southwest Colorado, is in AMNH (Klots, 1942: 399). See also Powell (1968: 10).

bolanderana Walsingham, 1879: 42, pl. LXIX, fig. 10, Paedisca; SYNTYPE, MCZ 15003; United States: California, Mount Shasta, August 1871, Walsingham; Eucosma bolanderana (Walsingham); Missing abdomen.

cockerellana Kearfott, 1907a: 71, Tortrix; PARALECTOTYPE, MCZ 14320; United States: Colorado, Glenwood Springs, September 1899; Argyrotaenia cockerellana (Kearfott); Lectotype male in AMNH designated by Powell (1964: 225).

constrictana Zeller, 1875: 305, fig. 56, Paedisca; HOLOTYPE male, MCZ 14335; United States: Texas, Dallas, Boll; Sonia constrictana (Zeller); Lectotype designated by Miller (1976: 50).

desertana Zeller, 1875: 306, fig. 37, Paedisca; LECTOTYPE male, MCZ 14338; United States: Texas, Dallas, Boll; Epiblema desertana (Zeller); Lectotype designated by Miller (1976: 50).

dietziana Kearfott, 1907a: 92, Epinotia; PARALEC-
TOTYPES (2), MCZ 14302; United States: Pennsylvania, Hazleton, W. G. Dietz; Rhopobota dietziana (Kearfott); Lectotype in AMNH designated by Klots (1942: 401); see also Heinrich (1923: 191).

dodana Kearfott, 1907a: 27, Eucosma; PARALEC-
TOTYPE, MCZ 15019; United States: SW Colorado, 7-13-1889, W. G. Dietz; Missing abdomen. Lectotype in AMNH designated by Klots (1942: 401); see also Heinrich (1923: 106).

dodecana Zeller, 1875: 311, fig. 40, Paedisca; SYNTYPES (5), MCZ 14341; United States: Texas, Dallas, Boll; Pelochrista scintillana (Clemens).

eclipsana Zeller, 1875: 298, fig. 29, Grapholitha [sic]; HOLOTYPE male, MCZ 14328; United States: Texas, Dallas, Boll; Missing abdomen.

ednana Kearfott, 1907c: 161, pl. VIII: fig. 13, Phal- onia; PARALECOTYPES (2), MCZ 15017; United
States: Pennsylvania, Hazleton; Anopina eddana (Kearfott); Lectotype in AMNH designated by Klots (1942: 417).

exasperatana Zeller, 1875: 238. Tortrix; SYNTYPES (2), MCZ 14309; United States: Texas, Dallas, Boll; Platynota exasperatana (Zeller).

fagigemmareae Chambers, 1878b: 74, Exartema; SYNTYPE, MCZ 15007; United States: Kentucky, Chambers; Olethreutes fagigemmareae (Chambers); Wings only, plus pupal case. Chambers refers to a single specimen in the MCZ, but then describes both sexes.

fragariana Packard, 1869: 335. Lozotaenia; SYNTYPE, MCZ 14315; United States: Maine; Clepsis perscana (Fitch); Missing abdomen.

frigidana Packard, 1856: 57. Penthina; LECTOTYPE male, MCZ 14306; Canada: Labrador; Apotomis frigidana (Packard); This species was described from two syntypes. Adamski and Peters (1986: 664) designated the lectotype (Code, Art. 74(b)). The male parallectotype is also in MCZ.

frustrana Comstock, 1880: 236. Retinia; PSEUDOTYPES (23+), MCZ 30298; United States: Massachusetts, Nantucket Island, S. H. Scudder: Rhycocnia frustrana (Comstock); The name Retinia frustrana was published by both Comstock (1880) and Scudder (1883). These specimens are Scudder's invalid type series. The lectotype in USNM designated by Miller (1967: 591).

fulvifrontana Packard, 1866: 59. Penthina; SYNTYPES (2), MCZ 14305; Canada: Labrador; Olethreutes septentroniana (Curtis).

glaucofusana Zeller, 1875: 245. Conchylis; LECTOTYPE female, MCZ 14303; United States: Texas, Dallas, Boll.

gommona Kearfott, 1907b: 78. Eucosma; PARALECTOTYPE, MCZ 15021; United States: New Jersey, Essex County, 5-11-1900, W. D. Kearfott; Lectotype in AMNH designated by Klots (1942: 403); see also Heinrich (1923: 119).

haimbachiana Kearfott, 1907a: 51, Epinotia; PARALECTOTYPE, MCZ 14300; United States: Pennsylvania, Philadelphia, VI-23-1904, F. Haimbach; Gyspoxona haimbachiana (Kearfott); Lectotype in AMNH designated by Klots (1942: 403); see also Heinrich (1923: 163).

inimicella Zeller, 1872: 559, fig. 20, Galleria; LECTOTYPE male, MCZ 14275; United States: Texas, Dallas, Boll, Pseudogalleria inimicella (Zeller).

leucophalerata Packard, 1866: 56. Pandemis; SYNTYPE, MCZ 14331; Canada: Labrador; Ancylis tineana (Huebner).

longipalpana Powell, 1985: 67, Syllocona; HOLOTYPE male; United States: South Carolina, Horry County, Myrtle Beach, 9 July 1943, C. T. Parsons.

maridana Zeller, 1875: 260. Phoxopteris; SYNTYPE male, MCZ 14330; United States: Texas, Dallas, Boll; Ancylis planatana (Clemens).

merrickanum Kearfott, 1907c: 156, pl. VIII, fig. 1. Exartema; PARALECTOTYPE, MCZ 15016; United States: Pennsylvania, New Brighton, VII-5-1904, H. D. Merrick; Olethreutes merrickana (Kearfott); Lectotype in AMNH designated by Klots (1942: 405); see also Heinrich (1926: 149).

miseana Kearfott, 1907a: 91. Eucosma; LECTOPARATYPE, MCZ 15020; United States: California, Placer County, Cisco; Eperiptera miseana (Kearfott); Lectotype in AMNH designated by Klots (1942).

murina Packard, 1867-60. Penthina; LECTOTYPE male, MCZ 14307; Canada: Labrador, Caribou Island; Olethreutes metallicana (Huebner); Lectotype designated by Miller (1985: 410); also paralectotype male.

nebulosa Packard, 1866: 61. Grapholitha; SYNTYPE male, MCZ 14312; Canada: Labrador; Gypsysona nebulosa (Packard); An additional MCZ specimen may be a syntype. Heinrich (1923: 281) cites a male "type" in the Fernald collection.

niveosana Packard, 1866: 55, Sciaphila; SYNTYPES (6), MCZ 14313, Canada: Labrador; Eana niveosana (Packard).

numerosana Zeller, 1876: 317, Paediscia; HOLOTYPE male, MCZ 14339; United States: Texas, Dallas, Boll; Epiblema numerosana (Zeller).

ochromediana Kearfott, 1907a: 11, Olethreutes; PARALECTOTYPE, MCZ 14332; United States: Pennsylvania, Hazleton, 6/21/1902, Olethreutes osmundana (Fernald); Lectotype in AMNH designated by Heinrich (1926: 170).

oliveacea Fernald, 1882: 71, Ecopsis; PARALECTOTYPES (2), MCZ 14334; United States: [no data]; Olethreutes oliveacea (Fernald); Lectotype in USNM designated by Miller (1970: 292).

osmundana Fernald, 1879: 156. Penthina; PARALECTOTYPE, MCZ 15010; United States: Maine, Orono, feeding on Osmunda regalis, emerged 1 July 1879, A. Allen; Olethreutes osmundana (Fernald); Lectotype in USNM designated by Miller (1970: 292).

packardi Zeller, 1875: 300, fig. 31, Grapholitha [sic]; HOLOTYPE, MCZ 14329; United States: Texas, Dallas, Boll; Missing abdomen.

peculiana Zeller, 1875: 210, fig. 1, Teras; HOLOTYPE female, MCZ 14316; United States: Texas, Dallas, Boll, Actaeus subnitana (Walker).
perfluana Zeller, 1875: 299, fig. 30. Grapholitha [sic]; HOLOTYPE female, MCZ 14327; United States: Texas, Dallas, Boll; Seredá tautana (Clemens).

pinabulae Kefferd, 1905: 9. Eladia; PARALEC- TOTYPE, MCZ 14344; United States: Massachusetts, Winchendon, V-26-1902; Argyrotaenia pin- abulae (Kefferd); Lectotype in AMNH designated by KLOTS (1942: 415).

plumbolineana Kefferd, 1907a: 53. Epinotia; PARALEC- TOTYPE, MCZ 14301; Canada: British Columbia, Wellington; Lectotype in AMNH designated by KLOTS (1942).

primulana Walsingham, 1879: 45, pl. LXX, fig. 7. Paedisca; SYNTYPES, MCZ 15004; United States: California, Mendocino County, 10 June 1871; Walsingham; Eucosma primulana (Walsingham).

proserana Kefferd, 1907b: 128. Enammonia; PARALEC- TOTYPE, MCZ 15013; United States: California, San Luis Obispo, III-[no year], A. H. Vachell; Cycia proserana (Kefferd); Lectotype in AMNH designated by KLOTS (1942: 408); see also Heinrich (1926: 57).

psycthergogrammose Zeller, 1875: 213. Teras hastiana variety; HOLOTYPE male, MCZ 14317; United States: Texas, Dallas, Boll; Acleris psycthergogrammose (Zeller); Missing abdomen and hindwings.

quintana Zeller, 1875: 304, figs. 34, 35. Paedisca; SYNTYPES (2), MCZ 14340; United States: Texas, Dallas, Boll; Eucosma robinsonana (Grote).

raraeana Kefferd, 1907a: 44. Thiodia; PARALEC- TOTYPE, MCZ 14326; United States: [no locality], ["8-12-99"]; Phaneta raraeana (Kefferd); Lectotype in AMNH designated by Heinrich (1923: 41).

seriatana Zeller, 1875: 244. Conchylis; HOLOTYPE male, MCZ 14304; United States: Texas, Dallas, Boll; Aethes seriatana (Zeller).

sesepulana Zeller, 1875: 220. Tortrix; SYNTYPES (4), MCZ 14314; United States: Texas, Dallas, Boll; Clepsis tarescana (Clemens).

spaldingana Kefferd, 1907a: 19. Eucosma; PARALEC- TOTYPE, MCZ 14321; United States: Utah, Stockton, "VII-26-3", T. Spaulding; Lectotype in AMNH designated by KLOTS (1942: 410); see also Heinrich (1923: 84).

spiculana Zeller, 1875: 289, fig. 23. Grapholitha; HOLOTYPE female, MCZ 14324; United States: Texas, Dallas, Boll; Phaneta spiculana (Zeller); Missing abdomen and right forewing.

terracotta Walsingham, 1879: 39. Paedisca; SYNTYPE, MCZ 15005; United States: California, Mount Shasta; Epinotia terracotta (Walsingham); This species was described from 7 syntypes from Mount Shasta. Six syntypes and an additional 24 specimens from Mount Shasta and Mendocino City are now in the BMNH. Like other Walsingham California syntypes in the MCZ, this specimen does not bear labels in Walsingham's own handwriting, but was presumably received by Chambers.

tessellana Packard, 1866: 58. Penthina; SYNTYPES (6), MCZ 14308; Canada: Labrador; Olethreutes internistana (Clemens).

testulana Zeller, 1875: 241. Genopsis; HOLOTYPE male, MCZ 14311; United States: Texas, Dallas, Boll; Sparganthis directana (Walker).

trireculana Zeller, 1875: 226. Tortrix; SYNTYPE, MCZ 14319; United States: Texas, Dallas, Boll; Argyrotaenia quercifoliana (Fitch); Missing left forewing.

tripartita Zeller, 1875: 308, fig. 39. Paedisca; HOLOTYPE female, MCZ 14357; United States: Texas, Dallas, Boll; Epiblema tripertita (Zeller).


variolana Zeller, 1875: 212. Teras; HOLOTYPE male, MCZ 14318; United States: Texas, Dallas, Boll; Acleris minuta (Robinson).

vertumnana Zeller, 1875: 310. Paedisca; LECTOTYPE female, MCZ 14336; United States: Texas, Dallas, Boll; Epinotia vertumnana (Zeller); Lectotype designated by Brown (1987: 343).

verutana Zeller, 1875: 247. Bactra lanceolana variety; SYNTYPES (2), MCZ 14333; United States: Texas, Dallas, Boll; Bactra vertutana Zeller.

vesitallana Zeller, 1875: 286, fig. 21. Grapholitha [sic]; HOLOTYPE male, MCZ 14323; United States: Texas, Dallas, Boll; Hystrichophora vestallana (Zeller); The holotype is a male, not a female as stated by Zeller.

vitivorana Packard, 1869-336, pl. 8, fig. 22. Penthina; SYNTYPE, MCZ 15008; United States: Ohio, Hudson, M. C. Reed; Endopiza viteana Clemens; Missing abdomen and right hindw ing.

worthingtoniana Fernald, 1878: 83. Paedisca; SYNTYPE, MCZ 14342; United States: "North Illinois", [June]; C. E. Worthington; Eucosma bipunctella (Walker).

zana Kefferd, 1907a: 61. Enammonia; PARALEC- TOTYPE, MCZ 15015; Canada: British Columbia, Wellington, VI-[no year]; T. Bryant; Grapholitha caeruleana Walsingham; Lectotype in AMNH designated by KLOTS (1942: 412); see also Heinrich (1926: 31).
SUPERFAMILY ZYGAEANOIDEA

Family Zygaenidae

sanborni Packard, 1864a: 32, Harrisina; HOLONOTYPE [?], MCZ 27316; United States: Virginia, Alexandria, J. O. Treat; Acrolothis falsarius Clemens; This may not be the holotype, which was "loaned ... by Mr. Sanborn."

Family Limacodidae

bifida Packard, 1864c: 338, Eulee; SYNTYPES [?] (2 males), MCZ 16028; United States: Maine, Brunswick, "at light", August; Eulea delphini (Boisdal).

biguttata Packard, 1864c: 341, Limacodes; SYNTYPE, MCZ 26382; United States: Pennsylvania [Harris no. 753]; Apoda biguttata (Packard); Two additional Harris specimens may be syntypes.

cinerum Forbes, 1942: 389, Palacophobetron; HOMOTYPE male, MCZ 26268; Panama: Canal Zone, Barro Colorado Island, 31 December 1934, [A. Friedman]; Label states collector was A. Friedman, not M. Bates as stated by Forbes.

ephippatus Harris, 1869: 301, pl. I, fig. 7, pl. II, fig. 10. Limacodes; SYNTYPES (2 males, 2 females, 3 pupal cases), MCZ 33259; United States; "probably from Pennsylvania", T. Hill [Harris no. 775]; Acharia stimulea (Clemens) (see Becker and Miller, 1989).

ferruginea Packard, 1864c: 338, Eulee; HOMOTYPE female, MCZ 16027; United States: "St. Catharines, C. W. (Coll. Scudder)"; Eulea delphini (Boisduval); Specimen is a female, not a male as stated by Packard.

geminata Packard, 1864c: 343, Cytosis; SYNTYPE male, MCZ 16031; United States: Maryland, Janesville, R. Stratton; Packardia geminata (Packard); Packard (1964) and Tietz ([1952]) 151 record syntype(s) from Philadelphia in ANSP.

monitor Packard, 1864c: 357, Eulee; SYNTYPES (2 males), MCZ 16029; United States: Massachusetts, Cambridge and Boston; Eulea delphini (Boisdal); Additional 2 male, 2 female syntypes in Harris Collection.

testacea Packard, 1864c: 348, Tortricididae; SYNTYPES (2), MCZ 26384; United States: [Harris no. 315].

y-inversa Packard, 1864c: 341, Limacodes; HOMOTYPE, MCZ 26383; United States: Pennsylvania [Harris no. 781]; Apoda y-inversa (Packard); A pseudotype in main collection, MCZ 16030.

Family Megalopygidae

crispata Packard, 1864c: 335, Lagoa; SYNTYPES (1 male, 1 female), MCZ 27315; United States: Massachusetts, Brookline, C. A. Shurtleff; Megalopyge crispata (Packard); Packard notes "thirteen specimens reared from the blackberry bush by Mr. Shurtleff."

immaculata Cassino, 1928: 91, Lagoa; HOMOTYPE male, MCZ 32865; United States: Texas, Davis Mountains, 1-7 February 1926, O. C. Poling; Megalopyge immaculata (Cassino); Probably a synonym of Megalopyge laycei (Barnes and McDunnough).

pulla Forbes, 1942: 401, Troisia; HOMOTYPE female, MCZ 26269; Panama: Canal Zone, Barro Colorado Island, 10 October 1934, M. Bates.

SUPERFAMILY PYRALOIDEA

Family Pyralidae


anticosatalis Grote, 1871: 104, Botys; SYNTYPES (1 male, 1 female), MCZ 14263; United States: Alabama, "about Demopolis"; Eulepe anticosatalis (Grote).

argillaceaellus Packard, 1867: 54, Crambus; SYNTYPES (2), MCZ 14295; Canada: Labrador, Square Island, 14 July 1864; Raphiptera argillaceaella (Packard).


borealis Packard, 1867: 55, Pyrausta; HOMOTYPE female, MCZ 14270; Canada: Labrador, Square Island, 14 July [1864]; Pyrausta subequalis borealis Packard.

eaeculalis Zeller, 1875: 333, pl. 10: fig 46, Perispasta; HOMOTYPE male, MCZ 14259; United States: Texas, Dallas, Boll.

californialis Packard, 1873a: 264, Fromene; LECTOTYPE male, MCZ 14297; United States: California, H. Edwards; Euchromius californialis (Packard); Capps (1966: 5) saw two of the three males now in the collection, and designated one of the two as lectotype, without so labelling it. Since there are three specimens, not two, it is not clear which one is the lectotype. One of the three may not be a syntype because it was collected by Behrens, not Edwards.
carpenterellus Packard, 1874: 548, fig. 1, Crambus; SYNTYPES (4 of 8), MCZ 14299; United States: Colorado, "Mountains of Colorado", 19 July, 12 August, and 8 September 1873, W. L. Carpenter; Crambus haneesi carpenterellus Packard; Brown (1972: 247) restricted the type locality to Weston Pass, Park County, Colorado.

comptoniella Zeller, 1872: 548, Nephopteryx; HOLETYPE male, MCZ 14287; United States: Texas, Dallas, Boll; Glyptocera comptoniella (Zeller).

euprina Zeller, 1872: 497, Aglossa; SYNTYPES (1 male, 1 female), MCZ 14257; United States: Texas, Dallas, Boll.

decimerella Hulst, 1888: 117, Lipographis; Probable SYNTYPE female, MCZ 14288; United States: Texas, Blanco County, August; Stylopalpia scobiella (Grote).

edmandsi Packard, 1864b: 120, Nephopteryx; SYNTYPE, MCZ 14275; United States: Massachusetts; Vitula edmandsi (Packard).

electella Hulst, 1887: 137, Anerastia; Probable SYNTYPE, MCZ 14279; United States: Texas, Blanco County; Homoeosoma electella (Hulst).

fenestrella Packard, 1873a: 259, Pempelia; SYNTYPES (2 of 6), MCZ 14292; United States: California, H. Edwards; Lipographis fenestrella (Packard); Edwards number 711 indicates Angel Island, April.

feriella Hulst, 1888: 115, Tacoma; Probable SYNTYPE, MCZ 14286; United States: Texas, [Blanco County, August].

feudalis Grote, 1875: 231, Botis; SYNTYPE, MCZ 16095; United States: New York and Massachusetts; Herpetogramma theesusialis (Walker).

frigidella Packard, 1867: 53, Eudoreia; SYNTYPE, MCZ 14296; Canada: Labrador, Cabibou Island; Pyla fusca (Haworth); Abdomen missing.

fulminalis Zeller, 1872: 560, fig. 19, Melissoblades; HOLETYPE male, MCZ 14276; United States: Texas, Dallas, Boll; Paralipsa fulminalis (Zeller).

glaealis Packard, 1867: 52, Botys; HOLETYPE female, MCZ 15354; Canada: Labrador, Hopedale, 5 August 1864; Udea inquinatalis (Zeller); Packard (1867) indicates one sex only and no range of size.

hostiplata Zeller, 1875: 338, Ephesia; PARALECOTYPES (6), MCZ 14277; United States: Texas, Dallas, Boll; Eurythmia hostiplata (Zeller); Lectotype in BMNH designated by Heinrich (1956: 307).

integra Zeller, 1873: 328, fig. 44, Scopetoma; SYNTYPES (3), MCZ 16094; United States: Texas, Dallas, Boll; Lineodes integras (Zeller); Although labelled as types by Hagen, these specimens were probably not seen by Zeller, who described the species from "Ein paar in meiner Sammlung, mehrere nach Hagens Angabe im Cambridger Museum.

interrupta Zeller, 1873: 329, Scopetoma; SYNTYPES (4), MCZ 16093; United States: Texas, Dallas, Boll; Lineodes interrupta (Zeller); As with Scopetoma integras above, Zeller probably did not see these specimens.

latifasciata Packard, 1873b: 269, Nephopteryx; HOLETYPE female, MCZ 14290; United States: Maine, A. S. Packard; Telethusa ovalis (Packard).

leoninella Packard, 1873a: 259, Pempelia; SYNTYPES (2 of 3), MCZ 14293; United States: California, H. Edwards; Lipographis leoninella (Packard); Edwards number 706 indicates San Mateo County, pastures, May.

lentiflusalis Zeller, 1872: 525, Homophya; SYNTYPE, MCZ 14274; United States: Texas, Dallas, Boll; Aethiophya lentiflusalis (Zeller).

melanogrammos Zeller, 1872: 546, fig. 24, Tetralophota; HOLETYPE male, MCZ 14256; United States: Texas, Dallas, Boll; Specimen illustrated by Holland and Schaus (1925: 65).

metalliferalis Packard, 1873a: 265, Calaelysta; SYNTYPES (2 of 4), MCZ 33257; United States: California, H. Edwards; Dieypmolania metalliferalis (Packard); Edwards number 205 indicates San Mateo County, marshy places, May.

mustelinalis Packard, 1873a: 262, Botys; SYNTYPES (2 of 2), MCZ 14269; United States: California, H. Edwards; Meccyna mustelinalis (Packard); One specimen has Edwards number 773 indicating Angel Island, May.

occidentalis Packard, 1873a: 260, Scopula; LECTOTYPE female, MCZ 14264; United States: California, H. Edwards; Achlyra occidentalis (Packard); Lectotype designated by Capps (1967: 51). Edwards number 716 indicates Point Lobos, pastures, May.

ochrifrontella Zeller, 1875: 337, Ephesia; HOLETYPE male, MCZ 14250; United States: Texas, Dallas, Boll; Euclio ochrifrontella (Zeller).

octonalis Zeller, 1873: 211, Orobena; HOLETYPE male, MCZ 14273; United States: Texas, Dallas, Boll; "Lygropia" octonalis (Zeller) (needs new genus according to Munroe, pers. comm.).

ovalis Packard, 1873b: 269, Pempelia; HOLETYPE, MCZ 14289; United States: Maine, A. S. Packard; Telethusa ovalis (Packard); Missing abdomen.
perrubralis Packard, 1873a: 264, Botys; SYNTAXYPES (2 of 3), MCZ 14267; United States: California, Pyrausta perrubralis (Packard).

plumbicoastalis Grote, 1871: 103, Botys; HOLOTYPE male, MCZ 32943; United States: Alabama, "about Demopolis"; Lygropia plumbicoastalis (Grote); Prothorax, left forewing, and right wings only.

profundalis Packard, 1873a: 261, Botys; SYNTAXYPES (2 of 5), MCZ 14271; United States: California, H. Edwards; Udea profundalis (Packard); Edwards number 705 indicates San Mateo County, pastures, May.

reniulaulis Zeller, 1872: 526, Homophyta; SYNTAXYPE male, MCZ 14261; United States: Texas, Dallas, Boll; Nephrogramma reniulaulis (Zeller).

roseatella Packard, 1873b: 270, Nephoteryx; LECTOTYPE male, MCZ 14282; United States: Massachusetts, Dorchester, F. G. Sanborn; Peoria approximella (Walker); Lectotype, and paralecotype also in MCZ, designated by Shaffer (1968: 30).


semitrubralis Packard, 1873a: 263, Botys; HOLOTYPE male, MCZ 14268; United States: California, [Sausalito, 6 May 1872], H. Edwards, Pyrausta semitrubralis (Packard); A second male from "S. Nevada" (Sierra Nevada Mountains of California) is also labelled "type" in Packard's handwriting, but is probably not the holotype, since there are other specimens in the MCZ with the same data but without type labels.


sesquialteralis Zeller, 1873: 209, fig. 5, Botis; HOLOTYPE male, MCZ 32924; United States: Texas, Dallas, Boll; Microtheoris o. opifinalis (Walker).

sirecera Zeller, 1875: 332, Octeopteria; SYNTAXYPES (2 of 2), MCZ 14258; United States: Texas, Dallas, Boll; Salobrena sirecera (Zeller).

subdivisalis Grote, 1871: 126, Desmia; HOLOTYPE ?, MCZ 14260; United States: Alabama, "about Demopolis"; Specimen consists of right wings only.

subolivalis Packard, 1873a: 261, Botys; SYNTAXYPES (2), MCZ 14266; United States: Maine, Brunswick, in grass uplands, and Orono, Maine, A. S. Packard, Jr.; Pyrausta unifascialis subolivalis (Packard).

tetradella Zeller, 1872: 552, Anerastia; PARALECTOTYPES (2), MCZ 14251; United States: Texas, Dallas, Boll; Peoria tetradella (Zeller); Lectotype in BMNH designated by Shaffer (1968: 17).

unifascialis Packard, 1873a: 261, Botys; SYNTAXYPES (2 of 2), MCZ 14265; United States: California, H. Edwards; Pyrausta unifascialis (Packard); Klots (1942: 422) designated a lectotype and paralectotype in AMNH. However, the MCZ specimens are probably the real types, since Packard kept the other types of California Pyralidae from Edwards. Beutenmueller (1982: 196) listed one type in AMNH.

unistratedellus Packard, 1867: 54, Crambus; SYNTAXYPE male, MCZ 22641; Canada: Labrador, Caribou Island.

vibialis Zeller, 1873: 208, fig. 4, Botis; HOLOTYPE male, MCZ 14272; United States: Texas, Dallas, Boll; Microtheoris vibialis (Zeller) (see Munroe, 1972: 147, about misspelling of name as ribialis).

Family Thyrididae

dimidiata Forbes, 1942: 345, Rhodoneura; HOLOTYPE female, MCZ 26263; Panama: Barro Colorado Island, 2-XII-1934, M. Bates; Missing abdomen.

longalis Forbes, 1942: 349, Dysodia; HOLOTYPE male, MCZ 26264; Panama: Barro Colorado Island, 29-XI-1934, M. Bates.

maecula Harris 1839: 313, Thyris; SYNTAXYPES (4), MCZ 26346; United States: [New Hampshire, Harris no. 219]. All missing abdomens.

mesogramma Forbes, 1942: 341, Ochrothyris; HOLOTYPE male, MCZ 26265; Panama: Barro Colorado Island, 10-I-1935, A. Friedman.

SUPERFAMILY PTEROPHOROIDEA

Family Pterophoridae

cervinidactylus Packard, 1873a: 266, Pterophorus; HOLOTYPE, MCZ 1785; United States: California, H. Edwards; Platypthisia palidactyla (Ha-worth); Missing right wings and abdomen.

cinerceus Fish, 1881: 73, Oidaematophorus; SYNTAXYPE male, MCZ 1781; United States: Washington Territory, H. K. Morrison; Barnes and Lindsey (1921: 392) consider this specimen a paratype.

grandis Fish, 1881: 141, Liopitlus; "LECTOTYPE" male, MCZ 1782; United States: California; Oidaematophorus grandis (Fish); Cashatt (1972: 5) designated this specimen as lectotype, unaware of a previous lectotype designation by Klotz (1942: 423) of a female in the AMNH.

laeteodactylus Chambers, 1873: 72, Pterophorus; HOLOTYPE male, MCZ 1783; United States: Kentucky; Chambers: Oidaematophorus laeteodactylus (Chambers); Missing abdomen.

palaeus Zeller, 1873: 326, Leioptilus; SYNTAXYPES
(3), MCZ 1757; United States, Texas, Dallas, Boll; Oidaematophorus paleaceus (Zeller).

pergracilidactylus Packard, 1873a: 265, Pterophorus; HOLOTYPE, MCZ 1786; United States: California, H. Edwards; Emmelia monodactyla (Linnæus); Missing left wings and abdomen.

pumilio Zeller, 1873: 324, Mimesoptilus; HOLOTYPE male, MCZ 1788; United States: Texas, Dallas, Boll; Parasompha pumilia (Zeller).

semicoastatus Zeller, 1873: 323, Mimesoptilus; SYNTYPES (2 of 2), MCZ 1789; United States: Texas, Dallas, Boll; Stenoptilia zophodactyla (Duponchel); One male and one female, although Zeller stated two males.

sulphureodactylus Packard, 1873a: 266, Pterophorusr; SYNTYPES (6 of 8), MCZ 1784; United States: California, Siskiyou County, Goose Lake, 26–27 July, J. Holleman; Oidaematophorus sulphureodactylus (Packard).

APPENDIX

Chambers “types” in the British Museum (Natural History)

The collection of the BMNH contains specimens sent by Chambers to Stainton in the 1870s. Some of them probably are syntypes of Chambers’ species, others are not syntypes but are toptotypes, and others are taxa described by other authors. The toptotypes might prove useful to document Chambers’ species concepts, or as neotype candidates.

There are three lots of Chambers specimens now in the Stainton collection. The August 1877 shipment to Stainton was accompanied by the following letter from Chambers:

“Wishing to preserve types of species of Tinea described by me, and likewise to make some acknowledgement . . . it has been my intention to send you as complete a collection of the species of this region [Covington, Kentucky] as I could make. Unfortunately during my absence in Colorado more than half the collection that I had made before I went there was destroyed, and the remainder with a small collection that I made in Colorado, was sent to the . . . [MCZ]. This spring and summer I have attempted to supply a few cabinets in this country and your own. Unfortunately the continued ill-health of my son again calls me to Colorado and unwilling to risk the destruction of my collection while I am absent I distribute it — so far as I have renewed it — now. I enclose here with 67 species of Tinea and one of Tortricina.”

The specimens are listed here as identified by Chambers. We have made no attempt to verify identifications. The localities listed here are those indicated by Chambers in correspondence or on labels, and are not necessarily the type localities. The first lot, sent December 1876, includes Lithariapteryx abroniaeella Chamber “from Colorado where the larva mines the leaves of Abronia fragans up to an altitude of about 7,000 feet above sea level” and Batrachedra praeeangusta Chambers from Colorado.

The second lot, sent in January 1877, now includes 5 species, but originally included 6.

1. Lithariapteryx abroniaeella Chambers Colorado
2. Lithocolletis salicifoliella Chambers
3. Lithocolletis amphiparpeaeella Chambers Kentucky
4. Laverna magnatella Chambers = Laverna oenotheriella Chambers
5. Gracilaria [sic] salicifoliella Chambers
6. Eurynome albella Chambers Colorado [must have been damaged in transit, not at BMNH]

The largest lot was sent in August 1877. All bear Chambers’ handwritten numbers and Stainton’s name labels. The numbers not cited in the following list refer to species described by authors other than Chambers.

1. Xylesthesia clemensella Chambers Kentucky
2. Tinea bimaculella Chambers Kentucky
3. Tinea caemetarietella [sic] Chambers Kentucky
4. Semele cristatella Chambers Kentucky
6. *Agnippe biscoloarella* Chambers Kentucky
7. *Hyponomeuta longimaculella* Chambers Kentucky
8. *Depressaria eupatortiella* Chambers Kentucky
9. *Gelechia querciella* Chambers Kentucky
10. *Gelechia cristatella* Chambers Kentucky
11. *Gelechia rubensella* Chambers Kentucky
13. *Helice pallidochrella* Chambers Kentucky
17. *Argyresthia undulatella* Chambers Kentucky
18. *Gracilaria packardella* [sic] Chambers Kentucky
19. *Corisium albanotella* Chambers Kentucky
20. *Gracilaria* [sic] *fasciella* Chambers Kentucky
21. *Gracilaria* [sic] *purpuriella* Chambers Kentucky
23. *Coleophora ochrella* Chambers Kentucky
24. *Coleophora caryaeufoliella* Chambers Kentucky
25. *Laverna cephalanthiella* Chambers Kentucky
26. *Chrysopeelia purpuriella* Chambers Kentucky
27. *Laverna? gleditschiaella* Chambers Kentucky
28. *Perime de erransella* Chambers Kentucky
30. *Dryope murtfeldiella* Chambers Kentucky
31. *Tischeria quercivorella* Chambers Kentucky
32. *Tischeria heliopsisella* Chambers Kentucky
33. *Bucculatrix luteella* Chambers Kentucky
35. *Philonomne Clemensella* Chambers Kentucky
36. *Phyllocnistis vitifoliella* Chambers Kentucky
37. *Phyllocnistis ampolapsiella* Chambers Kentucky
40. *Leucanthiza amphicarpeaefoliella* Chambers Kentucky
41. *Lithocolletis clemensella* Chambers Kentucky
43. *Lithocolletis fuscoostella* Chambers Kentucky
44. *Lithocolletis celtisella* Chambers Kentucky
45. *Lithocolletis cincinnatiella* Chambers Kentucky
47. *Lithocolletis ulmella* Chambers Kentucky
49. *Lithocolletis tiliaeella* Chambers Kentucky
50. *Lithocolletis ornatella* Chambers Kentucky
51. *Lithocolletis corylisella* Chambers Kentucky
52. *Lithocolletis ambrosiaeella* Chambers Kentucky
53. *Polyhymno sexstrigella* Chambers Texas
54. *Perime de unomaculaella* Chambers Texas
55. *Elachista parvipulvella* Chambers Texas
58. *Ornix prunivorella* Chambers Kentucky
59. *Gelechia fuscoochrella* Chambers Kentucky
60. *Lithocolletis tritaeniaella* Chambers Kentucky
61. *Nepticula apicialbella* Chambers Kentucky
63. *Gracilaria 12-lineella* Chambers Kentucky
64. *Gelechia bimaculella* Chambers Kentucky
65. *Lithocolletis corylisella* Chambers Kentucky
66. *Gelechia variella* [sic] Chambers Kentucky
68. *Microaethia amphicarpeaena* Chambers Kentucky

The correspondence also indicates a shipment in November 1872 which included 41 Chambers species. However, these specimens could not be located at the BMNH.
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Original names of all taxa cited are indexed, along with present names if the present species name differs (e.g., present names for which only the generic name differs from the original are not indexed). Family names and significant people cited in the introduction are also indexed.

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ABSTRACT: Primary types (holotypes, lectotypes and syntypes) in the moth superfamilies Erioeranioidea, Hepialoidea, Nepticuloidea, Incurvarioidea, Tineoidea (except Gracillariidae), Geleehioidea (except Coleophoridae), Copromorphoidea, Yponomeutoidea, Sesioidea, Cossoidea, Tortricoidea, Zygaenoidea, Pyralioidea, and Pterophoroidea are listed. Most of the taxa are Nearctic, several Neotropical. Authors included are S. E. Cassino, V. T. Chambers, W. G. Dietz, H. Edwards, C. Fish, W. T. M. Forbes, H. Frey and J. Boll, A. R. Grote, T. W. Harris, G. D. Hulst, W. D. Kearfott, A. S. Packard, Lord Walsingham, and P. C. Zeller. Lectotypes are designated herein for Anacampsis quadrimaculella (Chambers) and Isophriictis trimaculella (Chambers) (both Gelechiidae).
INTRODUCTION

Classification of several groups of North American microlepidoptera is made very difficult because most early workers on this fauna did not designate type specimens; their descriptions are inadequate to recognize the species; their “type” material was sent to more than one institution; and among them they described several hundred species. The Museum of Comparative Zoology (MCZ), Harvard University, has a significant number of types of these authors, particularly of V. T. Chambers. Chambers is notorious for his very brief and inadequate descriptions, the large


number of his often very short papers in scattered journals, the large number of
species for which no type material exists, and for the fact that his types were dispersed among the MCZ and contemporaneous workers. Because we have studied Chambers' papers and believe we have uncovered nearly all remaining specimens that can be considered authentic, we have included a discussion of specimens in other collections (see Appendix) and Chambers' bibliography to apprise other workers of the facts they will need when selecting lectotypes or designating neotypes. Many species are represented by no extant type material or are not represented by specimens in the MCZ; their names do not appear in the catalog.

This catalog lists the primary types of 609 taxa of Microlepidoptera located in the MCZ. All holotypes, lectotypes, and syntypes in the families treated are listed along with some paralectotypes and "pseudotypes." All specimens (except obvious paratypes) with numbered red "MCZ. type" labels are included. These red numbered labels were placed on the specimens by Nathan Banks and subsequent curators and sometimes are not accurate as noted in this list. Some lectotypes have been des-
ignated by previous authors by inference of holotype (Article 74(b), International Code of Zoological Nomenclature, third edition, 1985). For example, a lectotype was designated for Nepticula castaneae-foliella Chambers by inference of holotype. We have not designated additional lectotypes here (except for two as part of


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Hodges' research) because this action included the Peabody Academy should be left to specialists as part of the collection (the Peabody Academy still ex-

revision process. Each species-group entry is in Salem, Massachusetts, but no longer

has five potential topics: 1) Original com- maintains entomological collections) and

lunation, author, and date-page citation; the types from the now defunct Boston

2) Category of type, sex of specimen(s), Society of Natural History. Details on the
and MCZ type number; 3) Geographic distribution as indicated in the original de-
scription and/or labels accompanying the Victor T. Chambers: Most of the re-
type specimens; 4) Current valid name (if mains of the Chambers collection are at
different from original combination); and the MCZ, with another significant part at
5) Remarks. the USNM. See appendix for discussion of

Information presented in brackets [ ] possible Chambers types at the BMNH.

represents additions to or corrections of the Chambers deposited types at the MCZ be-
original description. The present valid tween 1876 and 1883 (Hagen, 1884); many

name of each taxon listed, if it differs from of them are in very poor condition, and

the original combination, is also included many probably are not true types but spec-

( following Hodges, et al., 1983 and more imens substituted by Chambers for lost or

recent literature). Sex is included only when damaged types.

it could be determined readily without Walsingham (1889: 24) wrote, "Cham-
damaging the specimen. The locations of bers, in distributing specimens to his var-
some other syntypes are indicated if known, ious correspondents, frequently appears to
using the following abbreviations: AMNH have attached a wrong name to them. This

= American Museum of Natural History, he admits in more than one instance in his
New York; ANSP = Academy of Natural Sciences, Philadelphia; BMNH = British Museum (Natural History), London; lection as a co-type of any one of his
LACM = Natural History Museum of Los Angeles County, Los Angeles; and USNM Chambers (1877c: 39) wrote: "... But

National Museum of Natural History, a few years ago I began to make a collect-

Smithsonian Institution, Washington. tion to be preserved as types of all my

The following superfamilies (following species. These were all pinned and spread. Hodges, et al., 1983) are included in the Unfortunately, during my absence in Col-
list: Eriocranioidea, Hepialoidea, Nepti- orado, the greater part of this collection
culoidea, Incurvarioidea, Tineoidea (ex- was destroyed. One or more specimens of
cept Gracillariidae), Gelechioidca (except the greater number of species were for-
Coleophoridae), Copromorphoidea, Ypon- tunately preserved, and most other species
omeutoidca, Sesioidea, Cossoidea, Tortri- can be supplied. This collection is now in
coidea. Zygaenoidea, Pyraloidea, and the Cambridge Museum [MCZ]. It contains
I'terophoroidea Data For Tineidae and types — pinned and spread — of some-
Blastobasidae were provided by D. R. Da- thing over 200 species." (See also Braun,
vis and I). Adaniski. respectively. Gracil- 1963: 2; Hagen, 1884; Sattler, 1962.)
laridae are under study by D. R. Davis Most Chambers specimens bear only the
(l SNM). Coleophoridae are under study data "Kentuckv. /Chambers." (machine
b) B. Wright (Nova Scotia Museum) and printed) along with a handwritten deter-
were discussed by McDunnough (1944). mination label, and frequently a large

All the types listed here are in the main handwritten number (between 12 and 164)

MCZ collection, except those in the Harris on a separate label (the meaning of which
collection, which is maintained separately remains unknown). Most of these were
from the general collection. The MCZ col- presumably collected around his home in

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MCZ Microlepidoptera Types • Miller and Hodges 47

Covington, Kentucky (Chambers, 1875b: 234). Chambers wrote (1872: 433), "Out
of at least one hundred and fifty species
of Tineina which I have found here, fully
three-fourths have been taken resting upon
the leeward side of a board fence not two
hundred yards long, at Linden Grove Ce-
metary at this place [Covington, Ken-
tucky]."

Other major lots of material include
those collected by Chambers (and others)
in Colorado in 1875 (and other years) and
Texas specimens purchased by Chambers
from Gustaf W. Belfrage. Belfrage lived
near Norse, Bosque County (some 60 km
northwest of Waco), Texas, from 1868 to
1882 (Geiser, 1948). Most, but not all, of
Belfrage's moth material was probably collected there.

The USNM has many Chambers types, obtained primarily through acquiring the collections of C. H. Fernald (which included part of the M. Murtfeldt collection), F. H. Belanger (via Laval University, Quebec), and W. Saunders (Busck, 1903: 768).

Type localities for many of Chambers' species are not obvious from the original descriptions. We have followed the label data on the types, unless contradicted by other evidence.

Because of the scattered nature of Chambers' publications, we have included all of them on Lepidoptera in our literature section, whether mentioned here or not.

William G. Dietz: His types of Blastobasidae and Gracillariidae are in the MCZ.

Heinrich Frey and Jacob Boll: Several types of species described by Frey and Boll
(1873) previously assumed to be at the BMNH (e.g., Braun, 1972: 56) are present. These were evidently collected by Boll around Cambridge, Massachusetts, in autumn 1871 (Geiser, 1948: 22-23).

Thaddens W. Harris: Probably the oldest extant collection of North American insects, most specimens are still in good condition. It is held as a separate unit at the MCZ because the labels are cryptic (Johnson, 1925). Most specimens bear Harris numbers, the catalog of which is in the MCZ Archives. Specimens for which further data are not given probably came from Massachusetts.

George D. Hnlst: As discussed by Rindge (1955), the main Hulst collection is at AMNH, but the MCZ has syntypes of some Hulst taxa.

William D. Kearfott: The MCZ has a number of Kearfott syntypes (labeled "co-type"), some of which have now become paralectotypes. As discussed by Klots (1942: 392-393), much of Kearfott's collection is in AMNH, but parts are in USNM (via the
Barnes collection), and elsewhere (including MCZ). The best candidates for lectotype designation for Kearfott taxa will generally be found at AMNH or USNM, not at MCZ. Authorship of lectotype designations in some Kearfott Tortricidae remains problematic; Klots (1942) credited many lectotype designations to Heinrich (1923, 1926). However, Heinrich did not publish which specimen he considered the type if there was more than one syntype in AMNH. Klots usually did designate individual specimens, and should be considered the designator of most of the lectotypes in question.

Alpheus S. Packard, Jr.: Included here are California specimens collected by Henry Edwards. Some of these Edwards specimens bear Edwards’ catalog numbers; data from Edwards' catalog (now in AMNH) are included here.

Lord Walsingham [Thomas de Grey]:
The MCZ has one Walsingham holotype (Eriocraniidae) and many syntypes (Oecophoridae and Plutellidae). The syntypes are duplicates of species described by Wal-
singham (1881) from material he collected in California and Oregon in 1871-72 (see Essig, 1941), which were sent to Chambers by Walsingham. Lectotypes for these taxa should be designated from syntypes in the Walsingham collection at the BMNH.

Philipp C. Zeller: The MCZ has most of the specimens collected by Jacob Boll around Dallas, Texas in late 1869 and 1870.
Several types not located by Wilkinson and coauthors are included (Nepticulidae). The syntypes of 11 1 arris species reported lost in Duckworth and Eichlin (1978) are included (Sesiidae). The following were accidentally omitted from Hodges, et al. (1983): “Elachista” texanella Chambers (Scythrididae), Paralipsa fulminalis (Zeller) (Pyralidae) and Marasmarcha pumilio (Zeller) (Pterophoridae). Problems are noted in previous lectotype selections for Pyrausta unt/ascia/w(Packard) (Pyralidae) and Oidaemathororus grandis (Fish) (Pterophoridae). LECTOTYPES are here designated for Anacampsis quadrimaculella (Chambers) and Isophrictis trimaculella (Chambers) (both Gelechiidae). “Scythris” albapenella (Chambers) is here transferred from Scythrididae to Blastobasidae on advice of J. F. Landry and D. Adamski; Adamski will deal with its generic placement in a subsequent publication.

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SUPERFAMILY ERIOCRANIOIDEA

Family Eriocraniidae

auricyanea Walsingham, 1882: 204, Micropteryx [sic]; HOLOTYPE male, MCZ 1622; [United States: probably California (see Davis, 1978)]; Dyseriocrania auricyanea (Walsingham).

SUPERFAMILY HEPIALOIDEA

Family Hepialidae
argenteomaculatus Harris, 1841: 295, Hepiolus [sic];
SYNTYPE, MCZ 26378; United States: [Massachusetts, Cambridge, Harris no. 257]; Sthenopis ar-
genteomaculatus (Harris); Often cited as 1842, the
description was originally published in 1841, and
reprinted in 1842 (page 295 of both works).

labradoriensis Packard, 1864c: 394, Hepialus; HOl-
LOTYPE [?] male, MCZ 160; Canada: Labrador,
Straits of Belle Isle, Caribou Island, Salmon Bay, 3
August 1860, A. S. Packard, Jr.; Korscheltellus gra-
cilis (Grote) (see Wagner, 1988); Abdomen and
wings glued in place.

SUPERFAMILY NEPTICULOIDEA

Family Nepticulidae

apicialbella Chambers, 1873: 127. Neptieula; PAB.A-
LECTOTYPES (5), MCZ 1496; United States: Ken-
tucky, June, Chambers; Stigmella apicialbella
(Chambers); Lectotype (USNM type 523) and 3
paralectotvpes in USNM designated by Newton and

bosquella Chambers, 1878c: 106, INepticula; SYN-
TYPES (2 males), MCZ 14958; United States: Texas,
Bosque County; Ectoedemia obrutella (Zeller); A
male syntype in USNM (type 524).
castaneaefoliella Chambers, 1875a: 117, Neptieula; LECTOTYPE female, MCZ 14956; United States: Kentucky, Chambers; Stigmella castaneaefoliella (Chambers); Wilkinson and Scoble (1979: 46), designated the lectotype (Code, Art. 74(b)).

ciliaefuscella Chambers, 1873: 128, Neptieula; SYNTYPE, MCZ 1301; United States: Kentucky, "at lamp." 23 August [year not stated], Chambers; Stigmella fuscotibiella (Clemens).

clemensella Chambers, 1873: 125, Neptieula; LECTOTYPE female, MCZ 14955; United States: Kentucky, Chambers; Ectoedemia clemensella (Chambers); Lectotype and paralectotype in MCZ by Wilkinson and Scoble (1979: 86).

grandisella Chambers, 1880b: 193, Nepticula; HOLOTYPE male, MCZ 1302; United States: Texas; Ectoedemia grandisella (Chambers).

juglandifoliella Chambers, 1878c: 105, INeplicula;
SYNTYPE, MCZ 1495; United States: Kentucky, Chambers; Stigmella juglandifoliella (Clemens); Chambers (1878c) used Clemens’ (1861) name for “mine and adult, the mine of which was described by Clemens. Despite acknowledgement of Clemens’ previous use, Chambers called his name a new species.

*latifasciella* Chambers, 1878c: 106, Nepticula; HOMOTYPE female, MCZ 1497; United States: Kentucky, “on . . . chestnut-trees,” August, Chambers; Stigmella latifasciella (Chambers).

*maculosella* Chambers, 1880b: 193, Nepticula; HOMOTYPE female, MCZ 1303; United States: Texas; Stigmella nigriverticella (Chambers); Newton and Wilkinson (1982: 425) commented on status of this name.

*maximella* Chambers, 1873: 126, Nepticula; SYNTYPES (2), MCZ 14951; United States: Kentucky, Chambers; Ectoedemia platanella (Clemens); Not mentioned by Wilkinson and Scoble (1979) or Wilkinson and Newton (1981).

*pomivorella* Packard, 1870: 237, Micropteryx; SYNTYPE, MCZ 1499; United States: Massachusetts, Salem, A. S. Packard, Jr; Stigmella pomivorella
There are two specimens, an adult ("Imra. 12.[18]71") and a cocoon ("Apple June 19"), probably from the same individual as stated by Busck (1901: 52).

quericastanella Chambers, 1873: 127, Nepticula; SYNTYPES (3), MCZ 1304; United States: Kentucky, Chambers; Stigmella saginella (Clemens).

quercipulchella Chambers, 1878c: 105, Nepticula; HOLOTYPE male, MCZ 14957; United States: Kentucky, Chambers; Stigmella quercipulchella (Chambers).

resplendensella Chambers, 1875a: 118, Nepticula; LECTOTYPE, MCZ 14954; United States: Kentucky, 23 May [year not stated], Chambers; Stigmella resplendensella (Chambers); Lectotype designated by Newton and Wilkinson (1982: 456) who incorrectly stated it was in ANSP.

serotinaeella Chambers, 1873: 126, Nepticula; SYNTYPE, MCZ 1498; United States: Kentucky, Chambers; Stigmella prunifoliella (Clemens); Head and forewings only.

thoracealbella Chambers, 1873: 127, Nepticula; LECTOTYPE male, MCZ 14952; United States:
Kentucky, June, Chambers; Microc(dij)ttris thoracealbellus (Chambers); Wilkinson (1979: 70) designated the lectotype (Code, Art. 74(b)).

uuifasciella Chambers. L875a: 119, Nepticula; LECTOTYPE female, MCZ 1305; United States: Kentucky, Chambers; Stigmella uuifasciella (Chambers); Lectotype and paralectotype also in MCZ designated by Newton and Wilkinson (1982: 440

Family Tischeriidae

aenea Frev and Boll, 1873: 222, Tischeria; S"i ¥ TYPES (5), MCZ 1349; United States: Massachusetts, "Cambr.B." [=Cambridge, Boll or Cambridge, Boston]; Braun (1972: 56) stated "Type, Texas (probably Dallas)[BM]," but type locality is not specified in original description, and introduction to the paper indicates most of the species were reared by Boll at Cambridge.

badiiella Chambers, 1875a: 109, Tischeria; SYN-TYPES (8), MCZ 14941; United States: Kentucky, Chambers; Braun (1972: 21) stated "Type? Kentucky (MCZ?); Type [female] Kentucky^?), genitalia slide 9707 J.F.G.C (USNM)." USNM specimen is type 516.
clemensella Chambers, 1878c: 99, Tischeria; SYNTYPE, MCZ 14940; United States: Texas; Braun (1972: 34-35) stated type locality is Kentucky as implied by Chambers (1875a: 110, 1878c: 99), but specimen is labelled "Tex."

concolor Zeller, 1875: 352, Tischeria; HOLOTYPE female, MCZ 1348; United States: Texas, Dallas, Boll; Braun (1972: 27) stated "Type [female], Texas (MCZ)."

fuscomarginella Chambers, 1875a: 110, Tischeria; LECTOTYPE male, MCZ 14938; United States Kentucky, Chambers; Braun (1972: 35) designated the lectotype (Code, Art. 74(b)).

heliopsisella Chambers, 1875a: 113, Tischeria; SYNTYPES (2), MCZ 1503; United States: Kentucky, Chambers.

latipenella Chambers, 1878c: 97, Tischeria; HOLOTYPE male, MCZ 14942; United States: Texas; Tischeria zelleriella Clemens.

pulvella Chambers, 1878c: 99, Tischeria; LECTOTYPE, MCZ 1505; United States: Texas; Braun (1972: 97) designated the lectotype (Code, Art.
purinosella Chambers, 1875a: 110, Tischeria; LECTOTYPE, MCZ 14939; United States: Kentucky, Chambers; Braun (1972: 29) designated the lectotype (Code, Art. 74(b)).

quercivorella Chambers, 1875a: 109, Tischeria; SYNTYPES (5), MCZ 1506; United States Kentucky, Chambers; Tischeria citrinipennella Clemens; Braun (1972: 15) stated "Type [male], Kentucky (MCZ)," but no specimen was labelled lectotype.

roseticola Frev and Boll, 1873: 223, Tischeria; SYNTYPES (2 MCZ 1350; United States: Massachusetts, "Cambr.B."); See comments under Tischeria aenea regarding type locality.

tinctoriella Chambers, 1875a: 108, Tischeria; SYNTYPE, MCZ 150; United States: Kentucky, Chambers; Tischeria quercitella Clemens; Two addi-
tional specimens, labelled only "Kentucky./ (hambers." ma) be syntypes also.

SUPERFAMILY INCURVARIOIDEA
Family Incurvariidae

*alba* Zeller, 1873: 232, Tegeticula; LECTOTYPE male. MCZ 2922; United States: Texas, Dallas, Boll; Tegeticula yuccasella (Riley); Lectotype designated by Davis (1967: 51).


*bella* Chambers. 1873: 73, Adela; SYNTYPE female, MCZ 1 102; United States: Kentucky, May, Chambers. Adela caeruleella Walker.

*chalybeis* Zeller. 1873: 226, Adela; HOLOTYPE male, MI 32960; United States: Texas, Dallas, Boll; Adela caeruleella Walker.

dietziella Kearfott, 1908: 187, fig. 6, Incurvaria?; SYNTYPES (4), MCZ 14236; United States: New Jersey, Essex County, 30 May 1907, W. D. Kearfott; Chalceopla dietziella (Kearfott).
paradoxia Chambers, 1878e: 149, Hyponomeuta [sic];
LECTOTYPE male, MCZ 32959; United States:
Colorado, "nine miles north of Colorado Springs
and thence 5 miles east of the mountains"; Pro-
doxus quinquepunctellus (Chambers); Lectotype
and Imir paralectotypes also in MCZ designated by
Davis L967 76).

5-punctella Chambers, L875d: 7, Hyponomeuta [sic];
LECTOTYPE Female, MCZ 1413; United States:
Texas, Bosque County; Prodoxus quinquepunctel-
lus Chambers); Lectotype designated by Davis
1967 7".

rheumapterella Dietz 1905: 37, pi. I: fig. 4. Incur-
saria; LECTOTYPE Female, MCZ 2873; United
States Colorado, Durango; Prodoxus coloradensis
Rile) Lectotype and paralectotype also in MCZ
designated b) Davis L967 83

Family Heliozelidae

aesella Chambers 1877a 108, Heliozela; HOLO-
TYPE, MCZ L512; I nited states Kentucky, near
Covington, 24 April, Chambers; Head and right
front wing only.
ampelopsifoliella Chambers, 1874a: 168, Antispila;

PSEUDOTYPES (3), MCZ 1367; United States: Kentucky, Chambers; Chambers (1874: 168) states “known only in the larval state,” so these cannot be types. One of the three specimens is missing from its minuten.

gracilis Zeller, 1873: 314, Heliozela; HOLOTYPE male, MCZ 1351; United States: Texas, Dallas, Boll.

viticordifoliella Chambers, 1874a: 168, Antispila;
SYNTYPES (2), MCZ 1368; United States: Kentucky, Chambers.

SUPERFAMILY TINEOIDEA

Family Tineidae

Donald R. Davis

apachella Dietz, 1905: 7, Amydria; SYNTYPE female, MCZ 2904; United States: Arizona, Catal[ina] Springs; The type series of apachella is mixed. This specimen (MCZ 2904) is curvistrigella Dietz. One female syntype (Williams, Arizona) of apachella is in USNM.

apicisignatella Dietz, 1905: 65, Tinea; SYNTYPES
approximatella Dietz, 1905: 27, Scardia; PARALEC-TOTYPES (8), MCZ 2889 and 1 PSEUDOTYPE, MCZ 2889; United States: New Jersey, Essex County (Kearfott); and Pennsylvania, Hazleton, and Mauch Chunk; Scardiella approximatella (Dietz); One Hazleton, Pennsylvania, "syntype" bears a label date of "6/28 06" and therefore may not be a true type. Lectotype male and paralectotype female in USNM, designated by Robinson (1986: 109).

argentinotella Chambers, 1876b: 104, Semele; SYN-TYPE female, MCZ 1400; United States: Kentucky, June, Chambers; Homosetia argentinotella (Chambers); No other syntypes are known.

arizonella Dietz. 1905: 6, Amydria; SYNTYPE male, MCZ 2903; United States: Arizona, Huachuca; Abdomen missing. Another male syntype (Phoenix, Arizona) in USNM.

auricristatella Chambers, 1873a: 110, Pitys; SYN-TYPE female, MCZ 1397; United States: Kentucky, Chambers; Homosetia auricristatella (Chambers);
No other syntypes are known.

auristrigella Chambers, 1873a: 86, Tinea; SYNTYPE male, MCZ 14943; United States: Kentucky, July, Chambers; Isocorypha mcdiostriatella Clemens; In

[Begin Page: Page 51]

poor condition and glued to a paper point. No other syntypes are known.

auropulvella Chambers, 1873a: 90, Tinea; SYNTYPES (1 male, 2 females), MCZ 1391; United States: Kentucky, July; Nemapogon auropulvella (Chambers); Two additional male syntypes in USNM.

aurosuffusella Chambers, 1873a: 87, Tinea; SYNTYPE female, MCZ 1394; United States: Kentucky, Chambers; Hybroma servulella Clemens; No other syntypes are known.

behrensellla Chambers, 1875b: 249, Tinea; HOLOTYPE, presumed lost; United States: California, San Francisco, J. Behrens.
bimaculella Chambers, 1873a: 87, Tinea; SYN-TYPES (3 males), MCZ 1388; United States: Ken-ucky, Chambers; Tinea mandarinella Dietz; Chambers' name is preoccupied by Thunberg, 1794.

bipunctella Dietz, 1905: 77, Progona; HOLOTYPE female, [no MCZ number]; United States: Florida, Hastings; Mea bipunctella (Dietz); Specimen mostly destroyed, only fragments of mesothorax adhering to pin.

brevipennella Dietz, 1905: 5, Amydria; SYNTYPES (3 males), MCZ 2901; United States: District of Columbia, Washington, A. Busck; Maryland, Plum-mer's [sic] Island, A. Busck; Additional syntypes in USNM (13) and BMNH (3).

busckiella Dietz, 1905: 12, Paraplesia; PSEUDO-TYPE female, MCZ 2892; United States: Arizona, Catal[ina] Springs, [E. A. Schwarz]; Hypoplesia busckiella (Dietz); Dietz (1905) states that the only material examined by him was a single male (there-fore the holotype) in the USNM. Consequently the MCZ "cotype" and a male 'cotype" in LACM are not true types.

carbonella Dietz, 1905: 30, Abacobia; SYNTYPES (1
male, 4 females), MCZ 2871; United States: Pennsylvania, Hazeleton, W. G. Dietz; Elatobia carbonella (Dietz); Two additional syntypes (male and female) in USNM.

cariosella Dietz, 1905: 17, Epilegis; SYNTYPE male, MCZ 2898; United States: California, Kaweah; Setomorpha rutella Zeller; Dietz described this species from two males from Kaweah, California. A female "cotype" in MCZ and another female "cotype" in LACM, both of which bear no locality labels, are not types.

chrysocomella Dietz, 1905: 43, Isocorypha; HOLOTYPE, MCZ 2883; United States: Kansas, Onaga, [H. Kahl].

clemensella Chambers, 1873a: 174, Xylesthia; SYNTYPES (3 males, 3 females, 2 unknown), MCZ 1384; United States: Kentucky, [Chambers]; Xylesthia pruniramiella Clemens; Four MCZ syntypes are badly damaged with abdomens missing from three. Three additional male syntypes in USNM.

coloradella Diet/ L905: 6, Amydria; SYNTYPES (1 male, 3 females), MCZ 2902; United States: Arizona, Santa Rita Mountains; California, Kaweah; and Colorado, Durango; Amydria effrentella Cle-
Two additional (male, female) syntypes in USNM.

Confusella Dietz, 1905: 8, Amydria; SYNTYPES (6 females), MCZ 290(i; United States: California, Pasadena; Two additional tcinale syntypes in USNM.

Costotrigella Chambers, 1873a: 87, Tinea; SYNTYPE male, MCZ 14947; United States: Kentucky, August and September, Chambers; Nemapogon granella (Linnaeus); Specimen in poor condition; right forew ing and abdomen missing. No other syntypes are known.

Crescentella Kearfott, 1907b: 9, Amydria; SYNTYPE male, MCZ 14235; United States: Arizona, Pima County, Baboquivari Mountains; Acrolophus crescentella (Kearfott); Three additional male syntypes in USNM. Presumably the fifth remaining syntype is in University of Kansas collection, Lawrence, Kansas.

Cristatella Chambers, 1875b: 243, Semele; SYNTYPE male, MCZ 1401; United States: Kentucky, June, Chambers; Homosetia cristatella (Chambers); No other syntypes known.
croceoverticella Chambers, 1876b: 106, Tinea; SYNTYPE male, MCZ 1393; United States: Kentucky, Chambers; No other syntypes known.

cruciferella Dietz, 1905: 14, Paraneura; SYNTYPES (2 males), MCZ 2895; United States: California, Mountain View; Lindera tessellatella (Blanchard); One male "cotype" each in LACM and USNM are pseudotypes.

curviliniella Dietz, 1905: 71, Homostinea; SYNTYPES (3 males), MCZ 2866; United States: District of Columbia, [Washington, A. Busck]; Kansas, Ongaga; Louisiana, Vowells Mill; and, Missouri, St. Louis; Louisiana syntype is lost (only pin and labels remaining in MCZ). One male syntype (Washington, DC.) is also present in LACM, but a second female "cotype" from Kentucky is a pseudotype.

curvistrigella Deitz, 1905: 8, Amydria; SYNTYPE female, MCZ 2905; United States: Arizona, Phoenix; Additional male syntype in USNM.

dyarella Dietz, 1905: 11, Amydria; HOLOTYPE female, MCZ 14234; United States: Pennsylvania, Hazleton; Two female paratypes also exist, one in MCZ and one in USNM.
ehrhornella Dietz, 1905: 13, Paraneura; SYNTYPES
(2 males), MCZ 2894; United States: California, Mountain View: Lindera tessellatella (Blanchard).

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eunitariaeella Chambers, L873a 85, Tinea; SYNTYPES 2 males 2 Females), MCZ 1398; United States Kentucky, Chambers; Eudarcia eunitariaeella (< Chambers
fasciella Chambers L873a: 111, Pitys; SYNTYPE female, MCZ L347; United States Kentucky, Chambers; Homosetia fasciella (Chambers); No other syntypes are known Another female in extremely worn condition bearing Chambers’ Kentucky label exists in MCZ, but it shows no other indications of being a syntype.

doridella Dietz, L905: 77. Progona; HOLOTYPE female MCZ 2869; United States: Florida. Hastings; Xfea skinnerella (Dietz); Holotype erroneously stated to be a male by Dietz.
fractiliniella Dietz, L905; 17 Apotomia; SYNTYPE male. MCZ 2899; United States: California, Pasadena. *Setomorpha rutella* Zeller; Additional female s\lit > pe in IS\l\l

frigidella Packard. 1867: 62, *Oecophora*; SYNTYPES 2 females, MCZ 1549; Canada: Labrador, Caribou Mand. Square Island; *Niditinea fuscella* (Linnaeus); Both syntypes in very poor condition with the abdomen missing from one.

fulvisuffusella Dietz, 1901 68, *Tinea*; HOLOTYPE male MCZ 2864; United States: New Hampshire, Hampton; *Nemapogon variatella* (Clemens); A male pseudotype from the same locality in USNM.

fuscocristatella Chambers, L873a: 111, *Pitys*; SYNTYPES male. MCZ 1385; United States: Kentucky; Homosetia fuscocristatella (Chambers); Dietz L905 examined the "type" of this species in the MCZ and considered it a synonym of Homosetia miscocristatella Chambers.

fu-cofasciella Chambers, 1875b: 257. *Euplocamus CO: LECTOTYPE female, MCZ 1385; United*
States Kentucky, Chambers; Moniescardia fuscofasciella Chambers); lectotype designated by Robinson (1986: 76).

fuscomaculella Chambers, IS73a: 88, Tinea; SYN-

n 1'1 male M/. 14946; United States: Kentucky,
Chambers; Nemapogon granella (Linnaeus); No other is\nt\ pes know n.

geniculatella Diet/ L905: 62, Tinea; SYNTYPES (2 females), MCZ 2861 nited States: California, Oc-
cidental and Pasadena; \emapogon geniculatella
Dietz Deposition of an additional syntype from Kawasaki, California, is unknown

griseella Chambers 1873a 88, Tinea; SYNTYPES (2
males MCZ L389 nited States: Kentucky,
Chambers Siditinea Jus, din \ Linnaeus); One syn-
type in ver) pooi condition with head, abdomen.
i left toiew ing missing

hybromella< hambei L874a 51, Oenoe; SYNTYPE m nited Sates: Kentucky. Cham-

bei mi.

inamoenella Zeller, 1873: 224, Setomorpha; HO-
LOTYPE male, MCZ 2882; United States: Texas, Dallas, Boll; Setomorpha rutella Zeller.

interstitiella Dietz, 1905: 68, Tinea; HOLOTYPE male, MCZ 2865; United States: Georgia, Forsyth; Nemapogon interstitiella (Dietz).

irrorella Dietz. 1905: 34, Monopis; SYNTYPES (4 males, 3 females), MCZ 2872; United States: Pennsylvania, Hazleton and Mauch Chunk; Monopis marginistrigella (Chambers); Additional syntypes in LACM (1 male, 1 female) and USNM (2 males). Deposition of syntype(s) from New York unknown.

maculatella Dietz, 1905: 84, Homosetia; SYNTYPES (2 males), MCZ 2851; United States: California, Placer County; Pennsylvania, Hazleton; Homosetia marginimaculella (Chambers); Syntype from Placer County, California, missing abdomen.

majorella Dietz, 1905: 15, Setomorpha; SYNTYPES (2 females), MCZ 2896; United States: California, Pasadena; Setomorpha rutella Zeller.

marginistrigella Chambers, 1873a: 88, Tinea; SYNTYPE, MCZ 14950; United States: Kentucky,
Specimen in very poor condition, glued to a point with only the head, prothorax, and right forewing. No other syntypes known.

*Chambers; Monopis marginistrigella (Chambers)*

Margoriella Dietz, 1905: 11, Amydria; SYNTYPES (4 males), MCZ 2891; United States: Florida; Kansas, Lawrence; Texas, San Antonio; The type series appears to be mixed, with the eastern records most likely representing Amydria dyarella Dietz. Dietz (1905) mentions syntypic material in USNM, but none has been found.

*minutipulvella Chambers, 1875e; 212, Tinea; SYNTYPE female, MCZ 1390; Canada; Nemapogon acapnopennella (Clemens); Another female syntype in USNM.*

*Miriamella Dietz, 1905: 90, Leucomele; SYNTYPES* (4 males, 2 females), MCZ 2854; United States: Maryland, Plummers [sic] Island; Pennsylvania, Hazleton and Mauch Chunk; Two additional male syntypes in USNM and one male syntype in BMNH.

*miscercristatella Chambers, 1873a: 111, Pitys; SYNTYPE female, MCZ 1395; United States: Kentucky, Chambers; Homosetia miscercristatella (Cham-
bers); No other syntypes known.

miscella Chambers, 1873a: 86, Tinea; SYNTYPE(S),

presumed lost; United States: Kentucky; Dietz (1905)
reported the poorly preserved "type in MCZ.

molybdanella Dietz, 1905: 61, Tinea; SYNTYPES (2
females), MCZ 2880; United States: California, Pas-
adena; S'emapogoti molybdanella (Dietz).

multimaculella Chambers, 1878c: 89, Gelechia?;
SYNTYPES (2 males), MCZ 1451; United States:
Texas; Setomorpha rutella Zeller.

multistriatella Dietz, 1905: 59, Tinea; SYNTYPES (2
females), MCZ 2878; [Canada: Toronto]; Nema-
pogon multistriatella (Dietz); A female syntype is
also present in the LACM (Plummers Island, Mary-
land). The MCZ syntypes lack locality labels.

nepotella Dietz, 1905: 21, Epichaeta; SYNTYPES (2
females), MCZ 2887; United States: California, Pas-
aden; Apreta paradoxella Dietz.
	nigroatomella Dietz, 1905: 70, Tinea; HOLOTYPE, MCZ 2865; United States: New Jersey, Montclair, W. D. Kearfott; Nemapogon granella (Linnaeus).

obliquella Dietz, 1905: 10, Amydria; SYNTYPES (2 females), MCZ 2909; United States: California, Los Angeles County, Pasadena; Additional male syn-
type (Los Angeles County) in USNM.

obscurella Dietz, 1905: 82, Homosetia; HOLOTYPE male, MCZ 14945; United States: Kansas, Onaga; Homosetia bifasciella (Chambers).

oecidentella Dietz, 1905: 9, Amydria onagella; SYNTYPES, presumed lost; United States: California, Mountain View and Pasadena.

oecidentella Chambers, 1880b: 193, Tinea tapetzella; SYNTYPES (1 male, 1 female?), MCZ 1392; United States: California, San Francisco; Tinea oeciden-
tella Chambers; According to Chambers, the type series consisted of three specimens. The location of the third syntype is unknown.

onagella Dietz, 1905: 9, Amydria; SYNTYPES (2 males), MCZ 2908; United States: Kansas, Onaga;
One syntype missing right wings.

operosella Zeller, 1873: 223, Setomorpha; HOLOTYPE male, MCZ 2881; United States: Texas, Dallas, Boll; Setomorpha rutella Zeller; Abdomen and left wings missing.

ophrionella Dietz, 1905: 56, Tinea; HOLOTYPE male, MCZ 2875; United States: New York, Ithaca; Nemapogon ophrionella (Dietz); Left wings missing.

orleansella Chambers, 1873a: 85, Tinea; SYNTYPE male, MCZ 14949; United States: Louisiana, New Orleans; Niditinea orleansella (Chambers); Syntype in poor condition, unspread, and glued to a point. No other syntypes known.

pandurella Dietz, 1905: 8, Amydria; SYNTYPES (2 males), MCZ 2907; United States: Arizona, Phoenix; California, Pasadena; Amydria curvistrigella Dietz; Dietz stated that the type series consisted of "two specimens, [male] and [female], in my collection." A second specimen in MCZ is hereby considered a syntype even though it is also a male (i.e., sex mis-determined by Dietz) and bears no type labels. Two "cotypes" in USNM must thereby be regarded as pseudotypes. One of these (from Pasadena) is a
female, but it was misidentified and is A. conjusella Dietz.

paradoxella Dietz. 1905: 21, Aprea; HOLOTYPE female, MCZ 2186; United States: California, Pasadena; Dietz (1905) inisdetennined the holot) pe as a male.

rileyi Dietz, 1905: 59, Tinea; S^i VH PES (3 lemal, MCZ 2879; United States: Pennsylvania, Hazleton; District of Columbia; Florida Hastings; Nemapogon rileyi (Dietz); One female syntype collected by Busck in Washington, D.C., and loaned to Dietz has been returned to USNM. The 25 specimens from Hastings, Florida (reared by Rileyi were referred to by Dietz in the original description.

roburella Dietz, 1905: 58, Tinea; HOLOTYPE male, MCZ 2877; United States: New Jersey, Essex County [Park], VV. D. Kearfott; Nemapogon roburella (Dietz).

ruderella Zeller, 1873: 225, Setomorpha; HOLOTYPE male, MCZ 14233; United States: Texas, Dallas, Boll; Setomorpha rutella Zeller.

scardina Zeller, 1873: 215, Anaphora; SYNTYPES (2 males), MCZ 33318; United States: Texas, Dallas,
Boll; Acrolophus popeanella (Clemens); Two additional male syntypes in BMNH ("Carolina" and Texas).

septemstrigella Chambers, 1878c: 79, Tinea; Holootype male, MCZ 1386; United States: Texas; Augolychna septemstrigella (Chambers).

sepulchrella Dietz, 1905: 74, Tryptodema; Synotype male, MCZ 2867; United States: Maryland, Plummer's [sic] Island, A. Busck; Three additional syntypes (2 males, 1 female) in USNM.

sigmoidella Dietz, 1905: 16, Setomorpha; Synotypes (2 males), MCZ 2897; United States: Colorado, Glenwood Springs, Pueblo; Setomorpha rutilella Zeller; One additional male syntype each in USNM and LACM.

simulella Dietz, 1905: 13, Paraneura; Synotype female, MCZ 2893; United States: California, Folsom and Los Angeles; Lindera tessellatella Blanchard; A second syntype (Los Angeles) in LACM

skinnerella Dietz, 1905: 76, Progona; Holotype male, MCZ 2868; United States: New Jersey, Caldwell; Mea skinnerella (Dietz).
straminiella Chambers, 1873a: 86, Tinea; SYN-TYPE(S), presumed lost; United States: Kentucky, June.

texanella Chambers, 1878c: 79, Anaphora; SYN-TYPE male, MCZ 1383; United States: Texas: rolophus texanella (Chambers); No other syntypes known.

ihoracestrigella Chambers, 1876b: 106, Tinea; SYN-TYPE(S), presumed lost; United States: [type locality not stated].

transversestrigella Dietz. 1905: 20, Semiota; SYN-TYPES (8 males), MCZ 2900; United States: California, Pasadena: Setomorpha rutella Zeller; Four additional male syntypes in I SNM.

tuscanella Dietz, L905: 53, Tinea; SYN-Ti PE female, MCZ 2884; United States: Arizona, Tuscan [Tucson]. Tinea occidentella Chambers; No other syn-
types known

unomiculella Chambers, 1875b: 258, Tinea; SYN-

H PE female, M< :Z 1 387; United States: Texas; No
other S) ntes know n.

vicinella Dietz, L905 55 Tinea; HOLOTYPE fe-
male. MCZ 2885; United States Florida, Gotha;
Ceratophaga vicinella (Dietz); Sex given as male
in original description.

visaliella Chambers, L873a: 113, Cyane; SYNTYPE
male. MCZ L4974; United States Kentucky, Yisa-
lia. Chambers; Choropleca visaliella (Chambers);
The single known syntype is↓ad↓ broken with the
remaining parts glued to a point.

xanthostictella Dietz. 1905 56, Tinea; HOLOTYPE
male. MCZ 2S7(i; United States: Georgia, Forsyth.

yumaella Kearfott, 1907b: 6, Plutella; SYNTYPE male
J ol L6), M< / I 858; United States: Arizona, Yuma
County, Desert; Dyotopasta yumaella (Kearfott);
Nme Yuma Count) syntypes in USNM, some of
the remaining syntypes (other localities) at Uni-
versity of Kansas.
Family Lyonetiidae

albella Chambers, 1871a: 23, Cemiostoma; SYNTAXYPES 2 of t. MCZ 1306; United States: Kentucky. Chambers; Paraleucoptera albella (Chambers); One possible syntype in USNM (type 518).

albella Chambers. ISTTd: 140, Eurynome; SYNTAXYPES (2), MCZ 1312; United States: Colorado, near Edgerton, elevation about 6,500 feet; Philonome albella < Ihambersi: Two possible syntypes in

albicapitella Chambers, L875e: 125. Bucculatrix; SYNTYPE (?), M( / I 1962; Canada; Bucculatrix agnclla Chambers; Missing hind wings and abdomen. Braun L963 79); considered this name "an apparent transposition of s\1 lables" of capitealbella < Ihambers. One possible syntype in USNM (type 5776

alniella Chambers, L875c: 303, Lyonetia; S^ V

Ti PI S 9 M( Z I., I nited States Colorado, "along Grand River, Clear Creek. Fall River and I ontain-qui-Bouille, in all its stages, up to 9,000 feel altitude Vnother syntype in LACM.

ambro-.la<-<ii.>lla Chambers, 1875a: 119. Buccula-
trix; SYNTYPES 2 MCZ L308; United States; Kentucky, bred from leaves of Ambrosia trifida

\textbf{Innai us} < \textbf{Chambers}

\textbf{apicistrigella} Chambers, 1875a: 105, Lyonetia; SYNTYPE, MCZ 1314; United States: Kentucky, August, Chambers; Lyonetia speculella Clemens; Missing abdomen.

canadensisella Chambers, 1875e: 146, Bucculatrix; SYNTYPE, MCZ 1307; Canada; Missing abdomen. According to Braun (1963: 147) there is a female type in USNM (type 5775), but we could not locate it.

capitealbella Chambers, 1873a: 150, Bucculatrix; HOLOTYPE, MCZ 14961; United States: Kentucky, Chambers; Bucculatrix agnella Clemens; One "syntype" in USNM (type 519).

clemensella Chambers, 1874a: 97, Philonome; SYNTYPES 7 (2 missing from pins), MCZ 1311; United States: Kentucky, Chambers; One possible syntype in USNM (type 522).

curvilineatella Packard, 1869: 354, pi. 8, fig. 16, Lithocolletis; SYNTYPE, MCZ 1347; [United States]; Bucculatrix pomifoliella Clemens; Broken and
fuscoscapulella Chambers, 1878c: 104, Acanthoc-nemes; SYNTYPE, MCZ 1530; United States: Texas, Bosque County; Missing head and forewings.

inornatella Chambers, 1880b: 188, Eulyonetia; SYNTYPE, MCZ 1353; United States: Texas, Belfrage; Missing left wings and abdomen.

litigiosella Zeller, 1875: 354, Bucculatrix; SYNTYPE (1 of 2) female (not male as stated by Zeller), MCZ 14959; United States: Texas, Dallas, Boll.

luteella Chambers, 1873a: 151, Bucculatrix; SYNTYPES (7), MCZ 1501; United States: Kentucky, March, Chambers; Braun (1963: 153) stated that some of these syntypes are Bucculatrix packardella, and that there is a female syntype at USNM (type 520) and male syntype at ANSP.

luteella Chambers, 1873c: 304, Eurynome; HOLO-TYPE, MCZ 14964; United States: Colorado, Spanish Bar, 4 July; Philonome luteella (Chambers).

magnella Chambers, 1875d: 54, Bucculatrix; SYNTYPES (6), MCZ 1309; United States: Kentucky, Chambers; Braun (1963: 42-43) listed only one female “type” in MCZ, and two “paratypes in
obscurofasciella Chambers, 1873a: 150, Bucculatrix; 
S"i NTYPE female, MCZ 1500; United States: Ken- 
tuck), 23 May, Chambers; Bucculatrix trijasciella 
Clemens; Braun (1963: 136-137) noted a female 
syntype in USNM (type 521).

packardella Chambers, 1873a: 151, Bucculatrix;

s^ \ TYPES" (2), MCZ 14960; United States: Ken- 
tucks . ( :hamers; Two specimens glued to the same 
point, labelled only "Kentucky./ Chambers." and

[Begin Page: Page 55]

MCZ Microlepidoptera Types • Miller and Hodges 55

"Type/ 14960." Braun (1963: 129) stated "Two 
specimens thus named, presumably by Chambers, 
in the Museum of Comparative Zoology, but not 
labeled types, do not represent this species."

staintonella Chambers, 1878d: 133, Bucculatrix;
LECTOTYPE male, MCZ 1310; United States: Col- 
orado, Edgerton, elevation 6,000 feet; Originally 
described by Chambers (1877d: 141) as B. albella,
a name preoccupied by Stainton. Lectotype designated by Braun (1963: 74).

SUPERFAMILY GELECHIOIDEA

Family Oecophoridae

[Note: The Walsingham syntypes listed below were received by Chambers from Walsingham. Lectotypes should be designated from BMNH specimens.]

albaciliaeella Chambers, 1878b: 77, Strobisia; LECTOTYPE, MCZ 1548; United States: Ohio, Cincinnati; Menesta tortriciformella Clemens; Head and thorax only.

albella Chambers, 1874b: 235, Harpalyce; SYNTYPES (5), MCZ 1417; United States: Texas, Clifton, Belfrage; Durrantia piperatella (Zeller).

apioipunctella Chambers, 1875d: 8, Hyponomeuta; LECTOTYPE male, MCZ 1404; United States: Texas, Basque [sic] County, Belfrage; Ethmia apicipunctella (Chambers); Lectotype designated by Powell (1973: 88), also paralectotype in MCZ.

argillacea Walsingham, 1881: 313, pi. XXXVI, fig.
2, Depressaria;; SYNTYPE, MCZ 14975; United States: California, Tehama County, Newville; Agonopterix argillacea (Walsingham).

arnieella Walsingham, 1881: 314, pl. XXXVI, fig. 3, Depressaria;; SYNTYPE, MCZ 14976; United States: California, Mount Shasta; Agonopterix ar-

nicieella (Walsingham).

bicostomaculella Chambers, 1877a: 127, Gelechia; SYNTYPE male, MCZ 1461; United States: Colo-
rado, Edgerton, July; Taygete decemmaculella (Chambers); Hodges (1986: 6) transferred decem-
maculella to Oecophoridae.

boreasella Chambers, 1873a: 189, Oecophora; LEC-
TOTYPE male, MCZ 1553; United States: Ken-
tucky; Decantha boreasella (Chambers); Lectotype designated by Hodges (1974: 104).

canusella Chambers, 1874b: 235, Harpalyce; SYN-
TYPE, MCZ 1415; United States: Texas. [13/8]; Antaeotricha humilis (Zeller).

chrysurella Dietz, 1905: 42, Breckenridgia [sic]; HO-
LOTYPE male, MCZ 33274; United States: [South-
west] Colorado, ["6-28-89"]; Ethmia albistrigella (Walsingham).
clemensella Chambers, 1876b: 173, Gelechia; SYNTAXYPES (5), MCZ 1488; United States: Pennsylvania, Easton; Agono)tcrix clemensella (Chambers).

coryliella Chambers, 1875b: 242, llyale; SYNTYPE, MCZ 14974; United States: Kentucky, Covington, Chambers; Menesta tortriciformella Clemens.

cressonella Chambers, 1878c: 86, Cryptolechia; LECTOTYPE male, MCZ 1420: United States: Texas; Psilocorsis cryptolechiella ^Chambers); Lec-
totype designated by Hodges (1974: 92), also 2 paralectotypes in MCZ.

difficilisella Chambers, 1872a: 66, Evagora: S't V TYPE male, MCZ 1528; United States: Kentucky, Chambers; Taygete attributella (\ alker); Hodges (1986: 6) transferred attributella to Oecophoridae.

discostrigella Chambers, 1877d: 122, Anesychia; LECTOTYPE male, MCZ 1421; United States: Colorado, Edgerton, 6,500 feet; Ethmia discostrigella (Chambers); Lectotype designated by Powell (1973: 93), also 4 paralectotypes in MCZ.

eupatoriiella Chambers, 1878c: 82, Depressaria; SYNTAXYPE, MCZ 1432; United States: Kentucky, Chambers; Agonopterix eupatoriiella (Chambers).
faginella Chambers, 1872a: 131, Hagno; LECTOTYPE male, MCZ 1419; United States: Kentucky, Chambers; Psilocorsis cryptolechiella (Chambers); Lectotype designated by Hodges (1974: 92), also 4 paralectotypes in MCZ.

fernaldella Chambers, 1878c: 82, Depressaria; Possible SYNTYPES (2); United States: Maine; Machimia tentoriferella Clemens; Two specimens with no type labels may be types: one is labelled "Me"; "47" [pencil]; "fernaldella/Chb" [Chambers' pen]; "Machimia/(tentoriferella?)/AB May 1900"; the other "L.I." [?, pencil, illegible]; "Kentucky. [crossed out]/Chambers."; “22” [Chambers’ hand].

fernaldella Riley, 1889: 155, Setiostoma; SYNTAXYPES (2 of 12), MCZ 11907; United States: California. Los Angeles County; Other syntypes in USNM; Lectotype should be designated from USNM specimen.

hagenella Chambers, 1878c: 80, Anesychia; LECTOTYPE male, MCZ 1422; United States: Texas, Bosque County; Ethmia hagenella (Chambers); Lectotype designated by Powell (1973: 110), also paralectotype in MCZ.
lithosina Zeller, 1873: 244, Cryptolechia; HOLO-
TYPE male, MCZ 1717; United States: Texas, Dal-
las, Boll; Antaeotricha unipunctcllla (Clemens).

longimaculella Chambers, 1872a: 43, Hyponomeuta;
LECTOTYPE male, MCZ 1403; United States:
Kentucky, Chambers; Ethmia longimaculella
(Chambers); Lectotype designated by Powell (1973:
178), also 4 paralectotypes in MCZ.

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mirusella Chambers, L874b; 233, Anesychia; LEC-
TOTYP1 male, MCZ L423; United States: Texas,

[frage; Ethmia mirusella (Chambers); Lectotype
designated l>
Powell (1973: 193), also 4 paralec-
tot) pes in \K /
maltipunctella Chambers, L874b: 233, Anesychia;

LECTOTYPE male. MCZ 1425; United States: Texas Wan.. Belfrage; Ethmia semilugens (Zell- 
ei . Lectotype designated In Powell (1973: 86), also 
L3 paralectot) pes in NH :/..

nebeculosa Zeller. L873: 245. fig. 12, Cryptolechia;
SYNTYPES (4), MCZ 1720; United States: Texas, 
Dallas. Boll; 

taeotricha humilis (Zeller).

uovi-mundi Walsingham, 1881: 318, Depressaria;

SYNTYPE, MCZ 14971; United States: California 
and Oregon; Exaeretia thoracenigraeella (Cham- 
biers).

nubilerella Walsingham, 1881: 316, pi. XXXVI, fig. 
i- Depressaria; SYNTYPE, MCZ 14977; United 
States: Oregon, Rogue River; Agonopterix nubi-
ferella (Walsingham).

obscuromaculella Chambers, 1878c: 86, Cryptole-
chia?; SYNTYPE, MCZ 1418; United States: Texas, 
Bosque County, [11/8.]; Inga obscuromaculella 
Chambers.; Another syntype in USNM (Hodg 
1971 L02
piperatella Zeller. 1873: 239, Cryptolechia; HO-TYPE male. MCZ 1719; United States: Texas, Dallas. Boll; Durrantia piperatella (Zeller).

posticella Walsingham, 1881: 315, pi. XXXVI, fig. 5, Depressaria; SYNTYPE, MCZ 14972; United States: (California and Oregon; Agonopterix posticella Walsingham).

quinqueferella Walsingham, 1881: 322. Glyphipterus; PARALECTOTYPE (?), MCZ [no number]; United States: [California]; Fabiola quinqueferella (Walsingham); Designated a paralectotype by Heppner (1984: 338), but, as noted by Heppner, it might not be one of the original specimens.

shaleriella Chambers 1875a: 114, Oecophora; SYNTYPE male. MCZ: United States: Kentucky, Chambers Fabiola shaleriella (Chambers); Head and thorax only.

texanella Chambers, 1880b 180, Hyponomeuta;
Ethmia zelleriella Chambers); Lectotype designated by Powell.

Exaeretia thoracenigraeella (Chambers),

Exaeretia trifurcella Chambers, 1873: 12, Anesychia; LECTOTYPE female, MCZ 1426; United States: Kentucky, Chambers; Ethmia trifurcella (Chambers); Lectotype designated by Powell (1973: 194).

Exaeretia umbraticostella Walsingham, 1881: 318, pi. XXXVI, fig. 8.; Depressaria; SYNTYPE, MCZ 14973; United States: California and Oregon; Exaeretia umbraticostella (Walsingham).

Exaeretia vestalis Zeller, 1873: 247, Cryptolechia; HOLOTYPE
female, MCZ 1718; United States: Texas, Dallas, Boll; Antaeotricha vestalis (Zeller).

xanthobasis Zeller, 1875: 324, Setiostoma; HOLO-TYPE male, MCZ 33256; United States: Texas, Dallas, Boll; Rectiostoma xanthobasis (Zeller).

zelleriella Chambers, 1878c: 80, Hyponomeuta; LECTOTYPE female, MCZ 1405; United States: Texas, Bosque County; Ethmia zelleriella (Chambers); Lectotype designated by Powell (1973: 113).

Family Elachistidae

parvipulvella Chambers, 1875d: 56, Elachista; PSEUDOTYPES (4), MCZ 1513; United States: Texas; Braun (1948: 51) stated that none of the 4 MCZ specimens is an Elachista and that the real type is in USNM.

staintonella Chambers, 1878c: 96, Elachista; SYNTYPE male, MCZ 1514; United States: Texas.

Family Blastobasidae

David Adamski

ampla Dietz, 1900a: 103. pi. VI, fig. 1, Ploiophora; SYNTYPES (4 males), MCZ 2923; Adamski gen.
slide nos. 2159, 2160, 2161; United States: Pennsylvania, Hazleton; 1 syntype missing abdomen; 1 male erroneously labeled as "type" (no. 6135) in USNM (Adamski gen. slide no. 2471).

angustipennella Dietz, 1900a: 108, Pigritia; SYNTYPES (5), MCZ 2930; Adamski gen. slide nos. 2166 (male), 2167; (male), 2168 (female); 1 syntype missing abdomen; 1 syntype not dissected; United States: Pennsylvania, Hazleton; 1 male erroneously labeled as "type" (no. 6157) in USNM (Adamski gen. slide no. 2473).

annectella Dietz, 1910: 63, pi. IV, fig. 34a, Holcocera zelleriella var.; SYNTYPES (2 females of 3), MCZ 2932; Adamski gen. slide nos. 2150, 2151; United States: Iowa, Iowa City; Louisiana, Vowell's Mill; 1 syntype lost.

annulipes Dietz, 1910: 58, Holcocera crescentella x ai; 1 IOLOTYPE female, MCZ 2950; United States:
Arizona, Bahoyquivaria [sic] Mountains; Abdomen missing.

argyreella Dietz, 1900a: 113, Pseudopigritia; HOLOTYPE male, MCZ 2920; Adamski gen. slide no. 2201; United States: Pennsylvania, Hazleton.

argyrospendella Dietz, 1910: 22, pi. II, figs. 13, 13a, 13b, Calosima; SYNTYPES (3 of 3), MCZ 2968, 1 male, 1 female; Adamski gen. slide nos. 2059, 2060; United States: Pennsylvania, Hazleton; Florida, Hastings; Louisiana, Vowells Mill; Syntype from Louisiana missing abdomen.

arizonella Dietz, 1900a: 109, Pigritia; SYNTYPES (2 of 2 males), MCZ 2912; Adamski gen. slide nos. 2169, 2170; United States: Arizona, Huachuca, and Nochales [sic].

aufugella Zeller, 1873: 301, Blastobasis; HOLOTYPE, MCZ 14978; United States: Texas, [Dallas], Boll; Pigritia laticapitella Clemens; Abdomen missing.

basilarella Dietz, 1900a: 105, pi. VI, fig. 6, Pigritia; SYNTYPES (3 of 3), MCZ 2928; Adamski gen. slide no. 2171 (female); United States: Pennsylvania, Hazleton; Kansas, Lawrence; Iowa; 2 syntypes missing
basipallidella Dietz, 1910: 26, Holcocera dives var.; SYNTYPES (2 of 3), MCZ 2951, 1 male and 1 female; Adamski gen. slide nos. 2082, 2085; United States: Pennsylvania, Hazleton; New Hampshire, Hampton; 1 syntype from Cohasset, Massachusetts in USNM (Adamski gen. slide no. 2434 — male).

boreasella Dietz, 1910: 47, pi. Ill, fig. 22, Holcocera; SYNTYPES (4 of 5), MCZ 2960, females; Adamski gen. slide nos. 2064, 2065, 2066; R. B. Selander gen. slide no. 701; United States: New Hampshire, Webster; Canada: Montreal; 1 syntype lost.

busckiella Dietz, 1910: 36, pi. II, fig. 19, Holcocera; SYNTYPES (2 males of 7), MCZ 2956; Adamski gen. slide nos. 2067, 2068; United States: Maryland, Plummer's [sic] Island, July and August 1903, A. Busck; 5 syntypes in USNM; 1 male dissected (Adamski gen. slide no. 2424), 4 without abdomens.

canariella Dietz, 1900a: 118, pi. VII, fig. 17, Dryope; HOLOTYPE, male, MCZ 14226; Adamski gen. slide no. 2212; United States: California, Sonoma County; Dryoperia canariella (Dietz).

confectella Zeller, 1873: 303, Hypatima; HOLOTYPE female, MCZ 2083; United States: Texas,
confluentella Dietz, 1910: 36, pi. II, fig. 18, Holcocera; SYNTAXES (2 of 4), MCZ 2955, female; Adamski gen. slide no. 2156; 1 syntype missing abdomen; United States: Pennsylvania, Hazleton; Central New York; Holcocerina confluentella

confusella Dietz, 1900a: 104, pi. VI, fig. 4, Pigritia; SYNTAXES (4), MCZ 2925; Adamski gen. slide nos. 2172 (female), 2173 (male), 2174 (female); 1 syntype not dissected; United States: Pennsylvania, Hazleton; 1 syntype from Cohasset, Massachusetts, in USNM (Adamski gen. slide no. 2129 — female). 1 syntype lost.

crescentella Dietz, 1910: 57, pi. 1, fig. 31, Holcocera; HOLOTYPE female, MCZ 2919 Adamski gen. slide no. 2081; United States: Utah, Stockton, T. Spalding.

dianella Dietz, 1910: 22, Calosima; HOLOTYPE
male, MCZ 2969; Adamski gen. slide no. 2061;
United States: Georgia, Forsyth, 1895.

discopunctella Dietz, 1900a: 118, pi. VII, fig. 16,
Dryope; HOLOTYPE female, MCZ 14223; Adam-
ski gen. slide no. 2213; United States: Pennsylvania,
Hazleton; Dryoperia discopunctella (Dietz)

dives Dietz, 1910: 26, pi. II, fig. 14 (male), Holcocera;
SYNTYPES (2 of 7), MCZ 2951, females; Adamski
gen. slide nos. 2083, 2084; United States: Pennsyl-
vania, Hazleton; Maryland, Plummer's [sic] Island;
Canada: Toronto; 3 syntypes from Charleroi, Penn-
sylvania in USNM (Adamski gen. slide nos. 2431,
2433 (females) and 2432 (male)). 1 syntype lost.

dorsomaculella Dietz, 1900a: 112, pi. VII, fig. 10,
Pseudopigritia; SYNTYPES (2 of 2), MCZ 2917,
male and female, both specimens missing abdo-
mens; United States: Pennsylvania, Hazleton.

eyella Dietz, 1910: 49, pi. Ill, fig. 25, Holcocera;
SYNTYPES (7 of 17), MCZ 2941; Adamski gen.
slide nos. 2086 (female), 2087 (male), 2088 (male),
2089 (female); United States: Connecticut, East
River, C R. Ely; Maryland, Plummer's [sic] Island,
A. Busck, and Frederick; New Jersey, Essex Coun-
ty, W. D. Kearfott; Specimens comprising remain-
der of original syntype series cannot be determined.
equitella Dietz. 1900a: 112, Pseudopigritia; SYNTYPES (3 females), MCZ 2918; Adamski gen. slide nos. 2204, 2205; 1 syntype missing abdomen; United States: Pennsylvania, Hazleton.

estriatella Dietz, 1910: 28, pi. II, fig. 15, Holcocera; HOLOTYPE male, MCZ 2970; Adamski gen. slide no. 2090; United States: Massachusetts, [Cohasset].

fenyesella Dietz, 1900a: 119. Dryope; HOLOTYPE male, MCZ 14224; Adamski gen. slide no. 2214; United States: California, Pomona, A. Fenyes; Dryoperia fenyesella (Dietz).

fidella Dietz, 1900a: 103, pi. VI, figs. 2, 2a (male 2b (female), 2c (male), Ploiophora; SYNTYPES (5), MCZ 2924; Adamski gen. slide nos. 2162 (male),

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2163 (female), 2164 (female); two syntypes not dissected; United States: Pennsylvania, Hazleton; 1 syntype and 1 specimen erroneously labeled as
"type" (type no. 6126) in USNM (Adamski gen. slide no. 2472 and 2473 — males).

Iloridella Dietz. 1910: 17 fig. 10, Valentinia; S^ NT") PES (1 of I MCZ 2966, female (no abdomen); I nited States: Florida, Crescent City, [male] cone of 'Mima integrifolia; 3 syntypes (male and 2 females) in I SNM; I dissected (Adamski gen. slide no. 2115 — male); 1 male erroneously labeled as "cotype," MCZ 2966, from Florida, G. D. Hulst ( lollection.

fluxella Zeller. 1873: 301, Blastobasis; HOLOTYPE male, MCZ 1711; Adamski gen. slide no. 2091; I nited States Texas, [Dallas], Boll; Holcocera fluxella Zeller).

fratcrnella Dietz, 1900a: 113, pi. VII, fig. 11, Pseudopigritia; HOLOTYPE male, MCZ 2919; Adamski gen. slide no. 2207; United States: Pennsylvania, Hazleton.

fumerella Dietz. 1910: 35, Holcocera chalcofronto-tella var.; SYNTYPES (6), MCZ 2954, females; adamski gen. slide nos. 2074, 2075, 2076; 3 specimens not dissected.; I nited States: [Pennsylvania, Hazleton], bred from fruit racemes of sumach.
funebra Dietz, 1910 44. Holcocera; SYNTYPES (2
of 5 MCZ2092, adamski gen. slide no. 2092 (male);

United States: Maryland, Plummer's [sic] Island,
1903, A Busck; Pennsylvania, Hazleton; 3 syntypes
from Plummer's [sic] Island, Maryland in USNM
not dissected

In-<opurpurella Dietz, 1910: 9, Blastobasis plum-
merella var.; HOLOTYPE female, MCZ 2962;
Vdamski gen. slide no. 2962; United States: Mary-
land, Plummer's [sic] Island: Blastobasis plummer-
ella Diet/

fascosuffusella Dietz, 1900a: 117, pi. VII, fig. 13,
Dry.pe: SI N I \ PES (2 of 2), MCZ 14222, male
.Hid female; Adamski gen. slide nos. 2215, 2216;
I nited Slates Missouri, St. Louis; Dryoperia fus-

((/sujtisctla i Diet/

giganteUa Chambers L876b: 219, Blastobasis; LEC-
TOR I'l male MCZ 1551; J. A. Powell gen. slide
no 1008 1 nited states: Colorado; Holcocera gi-
gantella Chambers . Lectotype and 3 paralecto-
types in \( / designated I\>\ Powell (1976). One
other spei mien 1 1 ni 1 1 ( iolorado is at MCZ. may not
In' \)).ut ol original series.
gruella Dietz 1900a 116 -> l VII, figs. 12, 12a, 12b

male 12. (female) Dryope; SYNTYPE male,

M( / I 122~ Vdamsky yen slide no. 221 S: United Pennsylvania, Hazleton; Missouri, Saint Louis; Dryoperia grisella (Dietz); \t least 1 syntype lost. 1 syntype from collecti I ( :: V. Riley in

I s lM no 71

heidemannella Dietz, 1900a: 111, pi. VII, fig. 9, Epi-
gritia; SYNTYPES (2 of 7), MCZ 2916, females; Adamski gen. slide no. 2208; 1 syntype missing left hindwing, right forewing, and abdomen; United States: Pennsylvania, Bedford County, Sulfur Springs, on Abies excelsa, O. Heidemann; Epigritia ochrocomella (Clemens); 1 syntype in USNM (type no. 6133) (Adamski gen. slide no. 2483 — male); 4 syntypes lost.

hulstella Dietz, 1910: 7, pi. I, fig. 2, Blastobasis; HOLOTYPE female, MCZ 2977; Adamski gen. slide no. 2042; United States: Texas, G. Hulst.
iceryaeella Riley, 1887: 485, Blastobasis; SYNTYPES (4?), possible syntypes in MCZ; Adamski gen. slide nos. 2097, 2098 (1 male, 1 female); United States: California, Los Angeles County, Pasadena; Holcocera iceryaeella (Riley); At least 1 syntype from Alameda Co. and Los Angeles Co., California in USNM.

illibella Dietz, 1910: 57, pi. Ill, fig. 30, Holcocera; SYNTYPES (3 of 3), MCZ 2948, 2 males; Adamski gen. slide nos. 2101, 2102; United States: Maryland, Frederick; 1 syntype missing abdomen.

inclusa Dietz, 1910: 51, pi. Ill, fig. 27, Holcocera; HOLOTYPE male, MCZ 2943; Adamski gen. slide no. 2103; United States: Pennsylvania, Hazleton, 20 July 1904.

insulatella Dietz, 1910: 50, pi. Ill, fig. 26, Holcocera; SYNTYPES (2 of 2 males), MCZ 2942; Adamski gen. slide nos. 2104, 2105; United States: Colorado, Glenwood Springs, August.

interpunctella Dietz, 1910: 67, pi. IV, fig. 39, Holcocera; SYNTYPES (3 of 3), MCZ 2938, 2 males, 1 female; Adamski gen. slide nos. 2107, 2108, 2909; United States: Utah, Stockton, T. Spalding.

livorella Zeller, 1873: 299, Blastobasis; HOLOTYPE
male, MCZ 2082; Adamski gen. slide no. 2110; United States: Texas, [Dallas], Boll; Holcocera luteopulvella (Zeller).

luteopulvella Chambers, 1875d; 73, Dryope; SYNTYPE female, MCZ 1438; Adamski gen. slide no. 2178; United States: Kentucky, Chambers; Pigritia laticapitella Clemens.

mediofasciella Dietz, 1900a: 107, pi VI, fig. 5, Pigritia; HOLOTYPE female, MCZ 2927; Adamski gen. slide no. 2179; United States: [Pennsylvania, Hazleton], July.

melanostriatella Dietz, 1910: 66, pi. IV, fig. 38, Holcocera; SYNTYPES (7 of 9), MCZ 2937, 2 males; Vdamski gen. slide nos. 2111, 2112; 5 syntypes missing abdomens; United States: Pennsylvania, Hazleton; Connecticut, East River, C. R. Ely; Maryland, Frederick; 2 syntypes from Frederick, Maryland, and Fast River, Connecticut, are lost.

tesselinella Dietz, 1910: 52, pi. Ill, fig. 29, Holco-
cera; SYNTYPES (2 of 2 males), MCZ 2945; Adamski gen. slide nos. 2115, 2116; United States: Maryland, Frederick; Florida, Hastings.

minnicella Dietz, 1900a: 116, pi. VII, fig. 15, Dryope; SYNTYPES (5 of 5), MCZ 14221; Adamski male gen. slide nos. 2229, 2230 (3 syntypes not dissected); United States: Georgia, Forsyth; Drijoperia minnicella (Dietz); 1 syntype without "cotype" label, or lost.

minorella Dietz, 1910: 34, pi. II, fig. 17e, Holcocera chalcofrontella var.; SYNTYPES (4 of 6), MCZ 2953, female; Adamski gen. slide no. 2077; 3 syntypes not dissected; United States: Pennsylvania, Lewisburg, Chestnut burrs; 2 syntypes lost.

murtfeldtella Chambers, 1874a: 50, Dryope; SYNTYPES (14), MCZ 1437; Adamski gen. slide nos. 2234 (male), 2235 (female); 8 syntypes with damaged or missing abdomens; 4 syntypes not dissected; United States: Kentucky; Drijoperia murtfeldtella (Chambers).

nubilella Zeller, 1873: 297, fig. 36. Blastobasis; HLOTYPE female, MCZ 1714; Adamski gen. slide
glandulella (Riley).

obscurella Dietz, 1900a: 110, Pigritia; SYNTYPES (2 of 2), MCZ 2914; Adamski gen. slide no. 2180 (male); 1 syntype missing abdomen; United States: Pennsylvania, Hazleton.

occidentella Dietz, 1900a: 115, pi. VII, fig. 14, Dryope; HOLOTYPE female, MCZ 11300; United States: California, Kaweah; Drijoperia occidentella (Dietz); Missing left forewing and abdomen.

ochrocephala Dietz, 1910: 31, Holcocera; POSSIBLE SYNTYPE male, MCZ 2952; Adamski gen. slide no. 2123; United States: Maryland, [Plummers Island]; Male syntype from Aurora, West Virginia in USNM (Adamski gen. slide no. 2455).

ornatella Dietz, 1900a: 107, pi. VI, fig. 7, Pigritia; SYNTYPES (7 females, 1 male), MCZ 2929; Adamski gen. slide nos. 2182, 2183, 2184, 2186, 2187 females, 2185 male; 2 syntypes not dissected; United States: Pennsylvania, Hazleton; 1 specimen erroneously labeled as "ornatella" in USNM (Adamski gen. slide no. 2480 — female); 1 erroneously sexed syntype in MCZ.
pallidotinctella Dietz, 1900a: 111, pi. VII, fig. 8, 8a (male), 8b (female), Epigritia; SYNTYPES (2 of 3), MCZ 2915; both specimens missing abdomens; United States: Pennsylvania, Hazleton; Epigritia ochromella (Clemens); Male erroneously labeled as cotype in USNM (Adamski gen. slide no. 2482); 1 syntype lost.

plagiatella Dietz, 1910: 40, pi. Ill, fig. 20, Holcocera; HOLOTYPE male, MCZ 2957; Adamski gen. slide no. 2124; United States: Arizona, [Williams].

plummerella Dietz, 1910: 8, pi I, fig. 4, Blastobasis; SYNTYPES (2 males of 6), MCZ 2961; Adamski gen. slide no. 2043 (one specimen missing abdomen); United States: Maryland, Plummers [sic] Island; 3 syntypes in USNM (not dissected); 1 syntype lost.

pulchella Dietz, 1910: 20, pi. II, figs. 12, 12a, Euresia; HOLOTYPE male, MCZ 2967; Adamski gen. slide no. 2058; United States: District of Columbia, Washington.

purpurella Dietz, 1900a: 105, Pigritia; SYNTYPES (3 of 3 females), MCZ 2926; Adamski gen. slide nos. 2188, 2189, 2190; United States: Pennsylvania, Hazleton.
pusilla Dietz, 1910: 65, pi. IV, fig. 37, Holcocera; HOLOTYPE male, MCZ 2935; Adamski gen. slide no. 2139; United States: Texas, Brownsville.

quaintancella Dietz, 1910: 15, pi. I, fig. 9, Valentinia; SYNTYPES (2 females of 6), MCZ 2965; Adamski gen. slide nos. 2055, 2056; United States: locality unknown, bred from apple, Quaintance; 4 syntypes in USNM; 1 dissected (Adamski gen. slide no. 2416 — female), 2 missing abdomens, 1 with broken ovipositor.

quisquiliella Zeller, 1873: 298, Blastobasis; SYNTYPES (3 of 5), MCZ 1712, 1 male and 2 females; Adamski gen. slide nos. 2072, 2073; United States: Texas, [Dallas], Boll; Holcocera chalcofrontella quisquiliella (Zeller); 1 female is missing abdomen.

reductella Dietz, 1910: 45, Holcocera funebra var.; SYNTYPES (1 of 2), MCZ 2959, Adamski gen. slide no. 2095 (male); Canada: Manitoba, Aweme, Criddle; 1 syntype in USNM (missing abdomen).

rufopunctella Dietz, 1910. 65, Holcocera; HOLOTYPE female, MCZ 2936; Adamski gen. slide no. 2140; United States: Colorado, Denver, Oslar.
sagitella Dietz, 1910: 9, pi. I, fig. 5, Blastobasis; HOLOTYPE male, MCZ 2964; Adamski gen. slide no. 2046; United States: Pennsylvania, Hazleton [Aug. 2, 1898].

sciaphilella Zeller, 1873: 295, fig. 34. Blastobasis; HOLOTYPE male, MCZ 1713; Adamski gen. slide no. 2141; United States: Texas, [Dallas], Boll; Holcocera sciaphilella (Zeller).

simplicella Dietz, 1910: 9, Blastobasis plumerella var.; HOLOTYPE male, MCZ 2963; Adamski gen slide no. 2045; United States: Iowa, Iowa City; Specimen originally misidentified as female.

simulella Dietz, 1910: 52, pi. Ill, fig. 28, Holcocera; SYNTYPES (2 of 4), MCZ 2944, female; Adamski gen. slide no. 2143; 1 syntype missing abdomen; United States: Arizona, Williams; Texas Fedora; 1 syntype from Williams, Arizona in USNM (Adamski gen. slide no. 2459 — female); syntype from Stockton, Utah lost.
spoliatella Dietz, 1900: L10, Pigritia; SYNTYPES 2
of 2 males), M< / 2913; Adamski gen. slide nos.
21 I Jl. 2192: 1 syntype missing left forewing and
abdomen; United States: Pennsylvania, Hazleton;
additional damaged MCZ specimen is probabl
not a syntype. 1 specimen erroneously labeled co-
t> pe in L SW1

spoliatella Dietz, 1910: 53, Holcocera messelinella
var.; SYNTYPES (3 of 6), MCZ 2946, 3 males;
Adamski gen. slide nos. 2117, 2118, 2119; United
States Pennsylvania, Hazleton; Holcocera messe-
linella Dietz: 3 syntypes lost including those from
New Terse)

spretella Dietz, 1910: 58, pi. IV, fig. 32, Holcocera;

subsenella Zeller. 1 ST 3 302. Hypatima punctiferella
var.; HOLOTYPE male, MCZ 1716; Adamski gen.
slide no. 2126; United States: Texas, [Dallas], Boll;
Holcocera punctiferella subsenella (Zeller); Missing left wings; right forewing in gelatin capsule.

tartarella Dietz. 1910 64, pl. IV, fig. 36, Holcocera;
MIA-I's 3 ol 9 MCZ 2934, 1 male, 1 female
Vdamski gen. slide nos. 2146, 2147; 1 not dissected
United States: Maryland, Plummer's [sic] Island, A Busck; 3 syntypes in USNM; 2 missing abdomens
1 dissected Vdamski gen. slide no. 2461 — male)
3 s\lit\pes lost.

tenebrella Dietz. 1900a: 1 16, Dryope; SYNTYPES (2 of 3 . MCZ 1 1220, 1 male, Adamski gen. slide no. 2233; United States: Pennsylvania, Hazleton; Dry- operia tenebrella (Dietz); 1 sytype missing ab-
domen. 1 s\ntype lost.

triangularisella Chambers, 1875b: 256, Holcocera;
MNI-PI 1 male ol 2) MCZ 1550; Adamski gen. slide no. 21 12. I nited States: [Kentucky, Cham-
bers], Holcocera sciaphilella (Zeller).

tristella Dietz/ I "ton., IDS. Pigrita; SYNTYPES (2 ill 2 females) MCZ 2911; Adamski gen. slide nos. 2193, 2194; I nited States: Pennsylvania, Hazleton;
1 specimen erroneously labeled as "type" (type no. 2 m l SNM.

vestaliella Dietz. L910 63, pi [V, tig 35, Holcocera;
SYNTYPES -1 6 MCZ 2933, all missing ab-
domens, t nited States Maryland, Plummer's [sic] 
Island. Pennsylvania, Hazleton; 2 male syntypes
Imm Plummers Island, Maryland (R. B. Selandei
n did.' in. 7(i. .mil adamski gen. slide no. 2469)
ml SNM; I syntype from Cohasset, Massachusetts,

lost

olella l >n l 0: 7. pi. l. fie,. 3, Blastobasis;

SYNTYP1 S male and female:

^dai slid,-,.. 2iil7 2048; United States:

Texas, bred from Yucca baccata, emerged 18 April
1897; 3 syntypes in USNM (not dissected).

zelleriella Dietz, 1910: 62, pi. IV, fig. 34, Holcocera;
SYNTYPES (2 of 2 males), MCZ 2081; Adamski
gen. slide nos. 2148, 2149; United States: Texas,
Dallas; Only 1 male has locality label.
Family Momphidae

albocapitella Chambers, 1875d: 33, Laverna; SYNTYPE, MCZ 1374; United States: Texas, Basque [sic] County, September; Mompha murtfeldtella (Chambers).

bicristatella Chambers, 1880b: 187, Elachista; SYNTYPE, MCZ 1355; United States: Texas, Belfrage; Mompha bicristatella (Chambers).

cephalonthiella Chambers, 1871b: 221, Laverna; SYNTYPES (6), MCZ 1372; United States: Kentucky, Chambers; Mompha cephalonthiella (Chambers).

circumscrip-tella Zeller, 1873: 312, fig. 42, Laverna; PSEUDOTYPE, MCZ 1380; United States: Texas, Dallas, Boll; Mompha circumscriptella (Zeller).

coloradella Chambers, 1877d: 136, Laverna(?); SYNTYPE, MCZ 1379; United States: Colorado, Edgerton, July; Mompha coloradella (Chambers).

definitella Zeller, 1873: 111, fig. 41, Laverna; SYNTYPE, MCZ 1377; United States: Texas, Dallas, Boll; Mompha definitella (Zeller).
grisseella Chambers, 1875c: 295, Laverna; PSEL - DOTTYPES (2), MCZ 14970; Mompha murtfeldtella (Chambers); MCZ has 2 specimens from Kentucky, but description was based on 3 specimens from Spanish Bar, Colorado.

ignobilisella Chambers, 1875d: 33, 51, Laverna; SYNTYPE, MCZ 1519; United States: Texas, Basque [sic] County, September; Mompha ignobilisella (Chambers).

murtfeldtella Chambers, 1875b: 237, Laverna; HOLETYPE, MCZ 1375; United States: [Missouri, 15 September 1874, Murtfeldt]; Mompha murtfeldtella (Chambers).

obscurusella Chambers, 1875d: 53, Laverna; HOLETYPE, MCZ 1371; United States: Texas, Basque [sic] County; Mompha murtfeldtella (Chambers).

ornotheraesemenella Chambers, 1876b: 138, Laverna; SYNTYPE, MCZ 14969; United States: Missouri; Mompha brevivittella (Clemens).

tricristatella Chambers, 1875e: 211, Leucophryne; SYNTYPE, MCZ 1381; Canada; Mompha tricristatella (Chambers).

unifasciella Chambers, 1876b: 159, Laverna; SYNTYPE, MCZ 14969; United States: Missouri; Mompha brevivittella (Clemens).
Family Agonoxenidae

bicristatella Chambers, 1875e: 210, Gelechia; SYNTYPES (2), MCZ 1459; Canada; Blastodacna bicristatella (Chambers).
bipunctella Chambers, 1880: 187, Aelia; SYNTYPE, MCZ 1360; United States: Texas.

Family Cosmopterigidae

albalineella Chambers, 1878c: 95, Eriphia?; HOLETYPE female, MCZ 14965; United States: Texas, Bosque County; Eralea albalineella (Chambers).
eoncolorella Chambers, 1875d: 55, Elachista?; HOLETYPE female, MCZ 1352; United States: Texas, Bosque County; Periploca orichalcella (Clemens).
eoncolorella Chambers, 1875d: 55, Eriphia; LECTOTYPE male, MCZ 1356; United States: Texas; Ithome eoncolorella (Chambers); Leetotype designated by Hodges (1961b: 87), also 3 paraleeotypes in MCZ.

determinatella Zeller, 1873: 289, Oeeophora; HOLETYPmale, MCZ 1710; United States: Texas; Triclonella determinatella (Zeller).

erransella Chambers, 1874a: 52, Perimede; HOLETYP, MCZ 1521; United States: Kentucky, Covington, Chambers; Description based on one specimen, but 4 specimens present in MCZ.

gleditschiaeella Chambers, 1876b: 135, Laverna(?) (Anybia?); LECTOTYPE male, MCZ 1373; United States: Kentucky, Chambers; Periploca gleditschiaeella (Chambers); Leetotype designated by Hodges (1962a: 88), also paralectotype in MCZ.

miscecolorella Chambers, 1875d: 51, Laverna; LECTOTYPE male, MCZ 1370; United States: Texas, Bosque Count; Walshia miscecolorella (Chambers); Leetotype designated by Hodges (1961a: 70).

montisella Chambers, 1875c: 297, Cosmopteryx [sic];
HOLOTYPE, MCZ 14967; United States: Colorado, Spanish Bar; Cosmopterix montisella Chambers.

nigrilineella Chambers, 1878c: 96, Eriphia?; HOLOTYPE male, MCZ 1357; United States: Texas, Bosque County; Melanocinclis nigrilineella (Chambers).

ostryaeella Chambers, 1874a: 74, Aeaea; HOLOTYPE male, MCZ 14966; United States: Kentucky; Stilbosis ostryaeella (Chambers).

purpuriella Chambers, 1874a: 73, Chrysopeleia; SYNTYPES (3), MCZ 1358; United States: Kentucky.

quadricustatella Chambers, 1880b: 186, Aeaea; HOLOTYPE male, MCZ 1359; United States: Texas, Waco; Stilbosis quadricustatella (Chambers).

l-lineella Chambers, 1878c: 95, Cosmopteryx [sic]; HOLOTYPE female, MCZ 1518; United States: Texas, Bosque County; Cosmopterix quadrilineella Chambers.

sexnotella Chambers, 1878c: 88, Gelechia; HOLOTYPE, MCZ 1542; United States: Texas, Bosque
County; Stagmatophora sexnotella (Chambers).

unimaculella Chambers, 1875d: 94, Ithome; LECTOTYPE male, MCZ 1520; United States: Texas; Ithome eoncolorrella (Chambers); Leetotype designated by Hodges (1961b: 87), and paralectotype in MCZ.

Family Scythrididae

albapenella Chambers, 1875d: 11, Butalis; SYNTYPE male, MCZ 1516; United States: Texas, Basque [sic] County, October; “Scythris” albapenella (Chambers) [misplaced]; Specimen in poor condition, missing left wings, and part of thorax.

arizoniella Kearfott, 1907: 8, Holcocera; SYNTYPE, MCZ 15022; United States: Arizona, Phoenix, October, Kunze; Scythris eburnea (Walsingham).

immaculatella Chambers, 1875d: 10, Butalis; SYNTYPE, MCZ 1515; United States: Texas, Basque [sic] County, April; Scythris impositella (Zeller).

plausipennella Chambers, 1875d: 10, Butalis; SYNTYPE, MCZ 1517; United States: Texas, Basque [sic] County; Scythris plausipennella (Chambers); Missing left wings.
Family Gelechiidae

albimarginella Chambers, 1875c: 291, Gelechia; SYNTYPE male, MCZ 2992; United States: Colorado, Grand River; Gnorimoschema albimarginella (Chambers); Abdomen and left wings missing. Specimen (MCZ 2992) probably is incorrectly labelled Kentucky. It matches a specimen from West Fork of Oak Creek, Coconino County, Arizona; and the type locality is Grand River, Colorado.

albistrigella Chambers, 1872a: 171, Gelechia; SYNTYPES" (2), MCZ 1522; United States: Kentucky, June, Chambers; Untomia albistrigella (Chambers); Untomia albistrigella was described from a single specimen; one of the specimens is a false type.

amorphaeila Chambers, IS77a: 124. Gelechia; SYNTAXYPES (3 of 4), MCZ 1480; United States: Colorado, Edgerton, Chambers; Filatima ornati-

fimбриella (Clemens).
anarsiella Chambers, 1877a: 126, Gelechia; SYNONYM S 8 M< Z 1 184; United States: Colorado.

apicistrigella Chambers, 1872a: 66, Parasia; HOMOTYPE Female, MCZ 1523; United States: Kentucky, Chambers; Battaristis nigratomella (Clemens Specimen lacks abdomen and right hindwing.

atrupictella Dietz, 1900 350, Kucordylea; HOMOTYPE male, MCZ 2986; United States: Pennsylvania, Hazleton; Coleotechnites atrupictella (Dietz).

basifasciella Zeller, 1873: 269, Gelechia (Poecilia?); HOMOTYPE male, MCZ 2988; United States: Texas. Boll; Pseudotelphusa basifasciella (Zeller).

basistrigella Zeller, 1873: 270, Gelechia; HOMOTYPE female, MCZ 2981; United States: Texas, Boll; Xenolechia basistrigella (Zeller).

bifasciella Chambers, 1874a: 76, Gelechia; SYNONYM HOMOTYPE male, MCZ 1362; United States: Kentucky, Chambers; Theisoa constrictella (Zeller).

bimaculella Chambers, 1877d: 122, INothris?; HO-I OTYPE male. MCZ 1557; United States: Colorado. Edgerton; Dichomeris georgiella (Walker).

bimaculella Chambers, 1872a: 108, Depressaria; st n l'. female, MCZ 1524; United States: Kentucky Chambers; Fascista bimaculella (Chambers).

biminimaculella Chambers, 1880b: 183, Gelechia; SYNTYPES 2 MCZ 1525; United States: Texas, aco, Belfrage; Filatima biminimaculella (Chambers).


bosqueella Chambers. L875d: 92, Oecophora; SYNTYPE female, MCZ L443; United States: Texas; Stegasta bosqueella (Chambers); bight hindwing missing.

canopulvella Chambers L878c: 91, Gelechia; HO-
iloc. n. I: female, M( Z I 152; United States: Texas, Bosque County; Filatima obscurosuffusella (Chambers). cercerisella Chambers L872a: 108, Depressaria;

SYNTYPES (2 MCZ 1427; United States: Kentucky; Fascista cercerisella (Chambers); Specimens are double mounted on one block of pith. Male lacks head, female lacks left forewing 4 abdomen.

ciliaineella L S 7 lb 242, Gelechia; S'I-

TYP1 United States: Texas; Isophriictis collinusella Chambers, 1877d: 128, Gelechia; HO-
LOTYP3 male, MCZ 1526; United States: Colorado, Edgerton; Gnorimoschema collinusella (Chambers); Right wings only.

concinnusella Chambers, 1875b: 253, Gelechia; SYNTYPES (2), MCZ 1460; United States: Texas; Battaristis concinnusella (Chambers).

consonella Zeller, 1873: 251, Gelechia; SYNTYPE male, MCZ 2982; United States: Texas, Boll; An-
camptis rhoifructella (Clemens).
costarufoella Chambers, 1874b: 240, Gelechia; LECTOTYPE, MCZ 1527; United States: Texas, Chambers; Dichomeris costarufoella (Chambers); Lectotype designated by Hodges (1986: 114).

crescentifasciella Chambers, 1874b: 237, Gelechia; SYNTYPES (7), MCZ 1477; United States: Texas; Compsolechia crescentifasciella (Chambers).

cristatella Chambers, 1875b: 241, Gelechia; SYNTYPES (2), MCZ 1472; United States: Kentucky, Chambers; Coleotechnites cristatella (Chambers).

cristifasciella Chambers, 1878c: 87, Gelechia; SYNTYPE female, MCZ 1474; United States: Kentucky, 11 May [no year stated], Chambers; Arogalea cristifasciella (Chambers); Worn specimen. Described from two syntypes.

curvistrigella Chambers, 1872a: 133, Telphusa; SYNTYPE female, MCZ 2939; United States: Kentucky, Chambers; Telphusa longifasciella (Clemens); Abdomen missing.

depressostrigella Chambers, 1874b: 236, Gelechia; SYNTYPES (2), MCZ 1434; United States: Texas; Filatima ochreosuffusella (Chambers).
disconotella Chambers, 1878c: 86, Gelechia; SYNTYPE, MCZ 1475; United States: Kentucky, Chambers; Monochroa disconotella (Chambers); Left wings missing.

discoocellella Chambers, 1872a: 194, Gelechia; SYNTYPES (4), MCZ 1439; United States: Kentucky, September, Chambers; Chionodes discoocellella (Chambers).

dorsivittella Zeller, 1873: 265, fig. 20, Gelechia (Tel-eia?); HOLOTYPE male, MCZ 1707; United States: Texas, Dallas, Boll; Coleotechnites vagatioella (Chambers); Haustellum and abdomen missing.

• I ii l>i irl la Chambers, 1872a: 92, Depressaria?; LECTOTYPE male, MCZ 1529; United States: Kentucky, Chambers; Dichomeris juncidella (Cle-mens); Lectotype designated by Hodges (1986: 111).

elegantella Chambers, 1874b: 239, Gelechia; SYNTYPES (8), MCZ 1494; United States: Texas, Chambers; Aristotelia elegantella (Chambers).

eupatoriella Chambers, 1872a: 221, Ypsolophus; LECTOTYPE male, MCZ 1531; United States: [Kentucky], Chambers; Dichomeris setosella (Cle-
mens); The original description indicates that one specimen was reared; it should be the holotype. None of the specimens bearing MCZ 1531 could be recognized as the one that Chambers described. Hodges (1986: 82) designated one of the four as lectotype.

fragmentella Zeller, 1873: 271, Gelechia (Poecilia?); HOLOTYPE female, MCZ 1706; United States: Texas, Dallas, Boll; Pseudotelphusa quercinigracella (Chambers); Specimen lacks right wings and abdomen.

fuscocristatella Chambers, 1875d: 9, Naera; SYNTYPES (4), MCZ 1382; United States: Texas.

fuscoluteella Chambers, 1872a: 106, Depressaria; HOLOTYPE male, MCZ 1462; United States: Kentucky, Chambers; Gelechia albisparsella (Chambers); Abdomen missing.
fuscomaculella Chambers, 1872a: 170, Gelechia; HOLOTYPE male, MCZ 1469; United States: Kentucky, Chambers; Chionodes fuscomaculella (Chambers).

fuscoochrella Chambers, 1872a: 106, Gelechia; SYNTYPE female, MCZ 1532; United States: Kentucky, Chambers; Chionodes mediofuscella (Clemens).

fuscopalidella Chambers, 1875b: 231, Sinoe; SYNTYPES (3), MCZ 1533; United States: Kentucky, Chambers; Sinoe robiniella (Fitch); One specimen has the left forewing; the other specimen has the right forewing.

fuscopulvella Chambers, 1872a: 195, Agnippe; HOLOTYPE male, MCZ 1282; United States: Kentucky, April, Chambers.

fuscopulvella Chambers, 1872a: 170, Gelechia; HOLOTYPE female, MCZ 1492; United States: Kentucky, June, Chambers; Chionodes obscurusella (Chambers).

fuscoslrigella Chambers, 1876b: 30, Polyhymno; HOLOTYPE male, MCZ 1547; United States: Texas, Belfrage; Polyhymno luteostrigella Chambers; Abdomen missing; labial palpus nearly devoid of scales ventrally.
fuscotaeniaella Chambers, 1878c: 89, Gelechia; HOLOTYPE male, MCZ 1448; United States: Texas; Rifseria fuscotaeniaella (Chambers); Head, thorax, and left wings only.

gilviscopella Zeller, 1873: 266, Gelechia; SYNTYPES (2), MCZ 1708; United States: Texas, Dallas, Boll; Coleotechnites quercivorella (Chambers).

glandiferella Zeller, 1873: 275, Gelechia; PARALECTOTYPE female, MCZ 1709; United States: Texas; Deltophora glandiferella (Zeller); Lectotype in BMNH designated by Sattler (1979: 297).

glycyrizaeella Chambers, 1877a: 124, Gelechia; HOLOTYPE female, MCZ 1483; United States: Colorado, Edgerton; Filatima glycyrizaeella (Chambers); Abdomen missing.

innocuella Zeller, 1873: 249, Gelechia (Tachvptilia); SYNTYPE male, MCZ 1721; United States: Texas, Boll; Anacampsis innocuella (Zeller).

intermediella Chambers, 1879a: 89, Gelechia; HOLOTYPE female, MCZ 1447; United States: Texas, Bosque County; Aristotelia intermediella (Cham-
bers); Labial palpi, metathorax, and abdomen missing.

inversella Zeller, 1873: 248, Epicorihylis; HOLOTYPE male, MCZ 1715; United States: Texas, Boll; Dichomeris inversella (Zeller).

latifasciella Chambers, 1875b: 251, Gelechia; PSEUDO TYPE female, MCZ 2940; United States: Missouri, St. Louis; Telphusa latifasciella (Chambers); The original description indicates that the moth is light. The specimen (MCZ 2940) is dark and represents the dark form of latifasciella.

lavernella Chambers, 1874b: 242, Gelechia; HOLOTYPE female, MCZ 1473; United States: Texas; Symmetrischema lavernella (Chambers).

leuconota Zeller, 1873: 268, Gelechia; HOLOTYPE male, MCZ 2973; United States: Texas, Boll; Evippe leuconota (Zeller).

liturosella Zeller, 1873: 265, Gelechia (Lite); HOLOTYPE female, MCZ 1704; United States: Texas, Dallas, Boll; Chionodes mediofuscella (Clemens).

luteostrigella Chambers, 1874b: 247, Polyhymno; PSEUDOTYPE female, MCZ 1546; United States:
Texas; The specimen (MCZ 1546) is a Coleophora.
The original description applies to the current concept of the gelechiid species Polyhymno luteostrigella.

maculimarginella Chambers, 1874b: 241, Gelechia; SYNTYPES (2), MCZ 1446; United States: Texas; Chionodes fuscomaculella (Chambers).

marmorella Chambers, 1875b: 239, Gelechia; HOLOTYPE, MCZ 1471; United States: Kentucky, Chambers; Gnorimoschema emancipatum (Meyrick), REVISED STATUS; Gelechia marmorella Chambers, 1875 is a junior primary homonym of Gelechia marmorella Doubleday, 1859. Phthorimaea emancipata Meyrick, 1925 is an objective replacement name for Gelechia marmorella Chambers, 1875.

minimaculella Chambers, 1874b: 235, Gelechia; HOLOTYPE male, MCZ 1485; United States: Texas; Aroga thoracealhclla (Chambers).

minimella Chambers, 1874b: 245, Gelechia; SYNTYPES (2), MCZ 1487; United States: Texas; Aristotelia pullusella (Chambers).

monumentella Chambers, 1877d: 125, Gelechia; HO-
LOTYPE male, MCZ 1482; United States: Colorado, Monument Park; Scrobipalpa monumentella (Chambers).

multifasciella Chambers, L875d: 93, Theisoa; SYN-nil MCZ L363; United States: Texas.

nigrella Chambers, L875b: 250. Gelechia; PSEUDOTYPE MCZ L489; United States: Texas; Syn-copacma nigrella (Chambers); The single, abdomenless specimen does not match the original description.

aoostrigella Chambers, 1878c: 92, Dasycera; HO-LOTYPE male. MCZ 1544; United States: Kentucky (Chambers; Dichomeris nonstrigella (Cham-

hcrs).

obliquifasciella Chambers, 1880b: 182, Gelechia;
HOLOTYPE male, MCZ 1170; United States: Texas. Telphusa longifasciella (Clemens).

obliquistrigella Chambers, 1872a; 65, Anarsia; SYNTYPE S 2 MCZ 1535; United States: Kentucky, Chambers; Coleotechnites obliquistrigella (Chambers).

obscurosuffusella Chambers, L878c: 90, Gelechia; s^ NT1 PE Female MCZ 1453; United States: Texas, Bosque County; Filatima obscurosuffusella

(hambersi; Abdomen and left forewing missing.

obscurusella Chambers, 1872a; 106, Depressaria; SYNTYPE male MCZ 1632; United States: Kentucky Chambers; Chionodes obscurusella (Chambers).

occidentella Chambers, 1875b; 24b, Gelechia; SYNTYPE Female, MCZ 1464; tinted States: California Behrens; Chionodes occidentella (Chambers).

ocellella Chambers, L877a; 126, Gelechia?; HO-
LOTYPE male. MCZ 1440; United States: Colorado. Edgerton; Gelechia hianulella (Chambers);
The holotype is a male, not a female as indicated by Chambers.

ochreocostella Chambers, ISTSc: 91, Gelechia; HOLOTYPE female, MCZ I 155; United States: Texas, Bosque County; Anacampsis rhoifructella (Clemens)

ochreostrigella Chambers, L875b: 247, Gelechia;

HOLOTYPE male MCZ L463; United States: California, Behrens; Chionodes ochreostrigella (Chambers); Abdomen missing.

ochreostrigella Chambers, L877a: 120, Gelechia; SI Vn PES 1 M<./. 2995; United States: Colorado Edgerton; Scrobipalpula henshawiella (Busck); The syntypes represent two species

olympiadella Z. II. i L873 259, Gelechia; PSEUDOTYPES 2 males M<./. 2021. United States: Texas

cerisella (Chambers); These speci-

S weir nol seen by Zeller when he described
pallidastrigella Chambers, 1874b: 244, Cleodora; SYNTYPE, MCZ 1561; United States: Texas; Isophricrits pallidastrigella (Chambers).

pallidella Chambers, 1874b: 245, Gleodora; SYNTYPES (2), MCZ 1562; United States: Texas; Isophricrits pallidella (Chambers); The specimens are very poor and probably represent two species.

pallidochrella Chambers, 1872a: 126, Depressaria; HOLOTYPE female, MCZ 1536; United States: Kentucky, May, Chambers; Symmetrischema pallidochrella (Chambers).

pallidochrella Chambers, 1873a: 188, Helice; SYNTYPES (4), MCZ 1620; (13), MCZ 1534; United States: Kentucky, Chambers; Theisoa pallidochrella (Chambers); Two MCZ type numbers with associated specimens represent the same species.

palpiannulella Chambers, 1872a: 68, Gelechia; SYNTYPES (4), MCZ 1493; United States: Kentucky, Chambers; Monochroa absconditella (Walker).

palpineella Chambers, 1875b: 252, Gelechia; SYNTYPES (3), MCZ 1486; United States: Kentucky, Chambers; Syncopacma palpineella (Chambers).
pedmontella Chambers, 1877a: 123, Gelechia; HOLOTYPE male, MCZ 1478; United States: Colorado, Edgerton; Gnorimoschema pedmontella (Chambers).


physaliella Chambers, 1872a: 173, Gelechia; SYNTYPE female, MCZ 33255; United States: Kentucky, Chambers; Aristotelia physaliella (Chambers); Chambers described physaliella from two specimens reared from Physalis viscosa L. The specimen in the MCZ was received from the Peabody Academy collection. A second syntype is in USNM.

platanella Chambers, 1872a: 146, Cirrha; PSEUDOTYPE male, MCZ 1430; United States: Kentucky, Chambers; Gelechia albisparsella (Chambers); Cirrha platanella Chambers is a replacement name for Depressaria albisparsella Chambers and as such does not have a separate type from the name it replaces. However, no type material of albisparsella exists. This specimen could be considered for designation as neotype of albisparsella. It
has only the head, thorax, and right forewing.

**plutella** Chambers, 1874b: 238, Gelechia; PSEUDOTYPES (2), MCZ 1429; United States: Kentucky; Dichomeris serrativittella (Zeller); These specimens are from Kentucky, not Texas as stated in the original description, and the color pattern on the forewings is reversed from that of the original description.

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**plutella** Chambers, 1874b: 244, Neda; SYNTYPES (2), MCZ 1369; United States: Texas; Megacraspedus plutella (Chambers); Another syntype in USNM.

**plutella** Chambers, 1875d: 106, Phaetusa; PSEUDOTYPES (2), MCZ 1429; United States: Kentucky; Evippe leuconota (Zeller); These specimens are from Kentucky, not Texas as stated in the original description. One female syntype in USNM.

**prunifoliella** Chambers, 1873a: 186, Evippe; SYNTYPE male, MCZ 1537; United States: Kentucky,
Chambers.

pseudacaciella Chambers, 1872a: 107, Depressaria; SYNTYPES (11), MCZ 1490; United States: Kentucky, Chambers; Filatima pseudacaciella (Chambers).

pudibundella Zeller, 1873: 273, Aristotelia; LECTOTYPE male, MCZ 1441; United States: Texas, Dallas, Boll; Lectotype designated by Forbes (1932: 429).

cu;i< 1 I i mac ii I I la Chambers, 1874b: 237, Gelechia; LECTOTYPE male, MCZ 1436; United States: Texas; Anacampsis rhoifructella (Clemens); The lectotype, present designation, bears the following labels: 1)"Type 1436"; 2)"Gelechia quadrimaculella Cham. Texas"; 3)"Anacampsis rhoifructella Clem. =quadritnacullla Cham. AB 1902"; 4)"Lectotype R. W. Hodges. It is selected to ensure that the name continues to be associated with Anacampsis rhoifructella (Clemens). The second syn-type is a species of Neodactylota.

querciella Chambers, 1872a: 127, Depressaria; SYNTYPES (3), MCZ 1538; United States: Kentucky, Chambers; Neotelphusa querciella (Chambers).
querciella Chambers, 1872a: 223, Ypsolophus;
PSEUDOTYPE female, MCZ 1560; United States: Kentucky, Chambers; Dichomeris ventrella (Fitch);
The identification label reads "Ypsolophus quer-
cicoella var. pomatella 482/1", and the specimen is Dichomeris ligulella Huebner. The original de-
scription of querciella clearly states that the wings are broad and thus does not apply to this specimen.

quercinigracella Chambers, 1872a: 170, Gelechia;
HOLOTYPE male, MCZ 1701; United States: Ken-
tucky, Chambers; Pseudotelphusa quercinigracella (Chambers); Abdomen and right wings missing.

quercipominella Chambers, 1872a: 222, Ypsolo-
phus; HOLOTYPE female, MCZ 1560; United States: Kentucky, Chambers; Dichomeris ligulella Huebner.

quercivorella Chambers, 1872a: 173, Gelechia; HO-
LOTYPE female, MCZ 1539; United States: Ken-
tucky, Chambers; Coleotechnites quercivorella (Chambers).

quinqueannulella Chambers. 1872a: 191, Gelechia;
HOLOTYPE female, MCZ 1467; United States: Kentucky, Chambers; Trypanisma prudens Clemens.
reedella Chambers. 1872a: 222, Ypsolophus; S 1 ! V
TYPES (3), MCZ 1559; United States: Kentucky,
Chambers; Dichomeris ligulella Huebner; The three
specimens are the same species

ribesella Chambers, 1875c: 290, Gelechia; HOLO-
TYPE female, MCZ 2984; United States ( Jolorado,
Spanish Bar, Clear Creek.

rileyella Chambers, 1872a: 106, Depressaria; S 1 ! V
TYPE male, MCZ 1431; United States: Kentucky,
Chambers; Gelechia rileyella (Chambers).

rubensella Chambers, 1872a: 193, Gelechia; PSEU-
DOTYPES (3), MCZ 1449; United States: Ken-
tucky, Chambers; Aristotelia rubidella (Clemens);
The status of these specimens as types is question-
able. Chambers described rubensella from a single
specimen that had its fringes singed by a gas light.
None of these is singed.

rufusella Chambers, 1874b: 240, Gelechia; SIN-
TYPES (3), MCZ 1444; United States: Texas; An-
camopsis fullonella (Zeller).

saphirinella Chambers, 1875b: 250, Gelechia; HO-
LOTYPE, MCZ 1468; United States: [Kentucky,
Chambers]; Gnorimoschema saphirinella (Cham-
bers); Labial palpi, right hindwing, and abdomen
missing. The right forewing is glued on a block.
Although the original description implies Texas as
the type locality, the label states "Kentucky./
Chambers."

saundersella Chambers, 1876b: 173, Gelechia; SYN-
TYPES (2), MCZ 1540; United States: Kentucky.
Chambers; Taijgete saundersella (Chambers).

scutellariaeela Chambers, 1873a: 175, Gelechia;
SYNTYPE male, MCZ 1541; United States: Ken-
tucky, Boone County, Verona; Scrobipalpa .scutel-
lariaeela (Chambers).

sella Chambers, 1874b: 238, Gelechia; LECTOTYPE
male, MCZ 1481; United States: Texas; Deltophora
sella (Chambers); Lectotype designated by Sattler
(1979: 294).

serratipalpella Chambers, 1877a: 123. Gelechia;
HOLOTYPE male, MCZ 1479; United States: Col-
orado, Edgerton; Gnorimoschema serratipalpella
(Chambers); The abdomen is glued to the rest of
the specimen.

serrativittella Zeller, 1873: 280, Gelechia; PARA-
LECTOTYPE female, MCZ 1705; United States:
Texas, Dallas, Boll; Dichomeris serrativittella (Zeller); Lectotype female in BMNH designated by Hodges (1986: 101).

Calliprora sexstrigella (Chambers),

solaniella Chambers, L873a: 176, Gelechia; PSEUD-D( T'PE female, \I Z 2453; hophricits similiella

( lumbers); Gelechia solaniella Chambers is a replacement name for Gelechia similiella Chambers,

1872

straminiella Chambers, 1872a: 224, Ypsolophus;

LECTOTYPE female, MCZ 1558; United States:
Kentucky, Chambers; Dichomeris punctidiscella

( lemens); Lectotype designated by Hodges (1986:

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ternariella Zeller, 1873: 264, Gelechia (Lita); HO-
LOTYPE female, MCZ 1702; United States: Texas,
Boll; Fascista bimaculella (Chambers).

texanella Chambers, 1880b: 179, Anesychia; LEC-
TOTYPE male, MCZ 1424; United States: Texas;
Lita texanella (Chambers); Lectotype designated
b) Hodges (1966: 30).

thoracealbella Chambers, 1874b: 235, Gelechia;
S"i NTYPE male. MCZ 1435; United States: Texas,
Waco, Belfrage; Aroga thoracealbella (Chambers).

trialbamaculella Chambers, 1875b: 250, Gelechia;
HOLOTYPE female, MCZ 1456; United States,
Texas. Waco. Belfrage; Aroga trialbamaculella
( hambers ; Head and right wings missing.

Uifasciella Chambers, 1875b: 252, Gelechia; SYN-
TYP1 S 2), MCZ 1445; United States: Texas, Waco,
Belfrage; Filatima albilorella (Zeller).
trilineella Chambers, 1877a: 125, Gelechia; SYNTYPES (6), MCZ 1454; United States: Colorado, Edgerton; Aroga trilineella (Chambers); One syn-type is not conspecific with the other five.

trimaculella Chambers, 1874b: 243, Anarsia; LECTOTYPE mal. MCZ 1556; United States: Texas, Waco, Belfrage; Isophrictis trimaculella (Chambers); The lectotype, present designation, bears the following labels: 1)"Type L556"; 2)"Texas"; 3)"72"; 4)"996"; 5)"trimaculella"; 6)"Lectotype R W Hodges"; 7)"RWH genitalia slide 3314." It is selected to ensure continued use of the name in Isophrictis. Three species are represented among the syntypes.
	rimaculella Chambers, 1877: 238, Gelechia; PARATYPE MCZ 1476; United States: Texas, Waco, Belfrage; Helcystogramma melanocarpum Meyrick); Lectotype in USNM designated by Hodges 1986: L30.

trimaculella Packard L867: 61, Gelechia; SYNTYPES 2 K MCZ L563; Canada: Labrador, Strawberry Harbor; Chionodes continuella (Zelli
	riocellella (Chambers) L877a 127 Gelechia; SYNTYPES 6 MCZ L453; United States: Colorado,
Edgerton; Gnorimoschema triocellella (Chambers).

unctulella Zeller. 1873: 257, Gelechia; HOLOTYPE male, MCZ 1703; United States: Texas, Boll; Filatima ornatifimbriella (Clemens).

variella Chambers, 1872a: 174, Gelechia; SYNTYPES (2 of several), MCZ 1544; United States: Kentucky, Chambers; Coleotechnites variella (Chambers); One female syntype is in USNM.

versutella Zeller, 1873: 253, Gelechia; HOLOTYPE female, MCZ 1457; United States: Texas, Boll.

violaceofusca Zeller, 1873: 258, Gelechia; HOLOTYPE male, MCZ 2981; United States: Texas, Dallas, Boll; Chionodes discoocellella (Chambers).

walsinghami Dietz, 1900b: 352, Pseudochelaria; SYNTYPE male, MCZ 3266; United States: Pennsylvania, Hazleton.

SUPERFAMILY COPROMORPHOIDEA
Family Glyphipterigidae

exoptatella Chambers, 1875b: 234, Glyphipteryx [sic]; HOLOTYPE, MCZ 1564; United States: Kentucky,
Linden Grove Cemetery, [June], Chambers; Diploschizia impigritella (Clemens); Heppner (1981: 322) gives type locality as "[Covington?, Kenton Co.]."

montisella Chambers, 1875c: 292, Glyphipteryx [sic]; LECTOTYPE male, MCZ 32887; United States: Colorado, Denver, South Park, 10,000 feet; Glyphipterix montisella Chambers; Lectotype designated by Heppner (1985: 124).

SUPERFAMILY YPONOMEUTOIDEA

Family Plutellidae

NOTE: The Walsingham syntypes in this family were sent to Chambers by Walsingham. We suggest that lectotypes should be selected from syntypes at the BMNH because Walsingham's personal collection is there. He most likely sent syntypes (a term not used in the 1880s) to Chambers as examples of his species. Types (holotypes and lectotypes in current terms) he would have retained.

canariella Walsingham, 1881: 309, pi. XXXV, fig. 11, Cerostoma; SYNTYPES (2), MCZ 14982; United
States California, Lake County, Scott's Valley, 18 May 1871; Ypsolopha canariella (Walsingham).

castella Walsingham, 1881: 310, pi. XXXV, fig. 13, Euceratia; SYNTYPES (2), MCZ 14984; United States. California, San Francisco.

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deniiferella Walsingham, 1881: 308, pi. XXXV, fig. 10, Cerostoma; SYNTYPES (2), MCZ 14985; United States: California, Mount Shasta, August 1871; Ypsolopha deniiferella (Walsingham).

falciferella Walsingham, 1881: 307, pi. XXXV, fig. 7, Cerostoma; SYNTYPE (1 of 18), MCZ 14988; United States: California and Oregon; Ypsolophia falciferella (Walsingham).

frustella Walsingham, 1881: 309, pi. XXXV, fig. 12, Cerostoma; SYNTYPES (2 of 26), MCZ 14981; United States: California, Shasta County, 28 July 1871; Ypsolopha frustella (Walsingham).

ochrella Chambers, 1880b: 181, Pluteloptera; SYN-
TYPE, MCZ 1414; United States: Texas, Belfrage; Ypsolopha ustella (Clemens); Missing left wings.

polita Walsingham, 1881: 302, pi. XXXV, fig. 2, Calantica; SYNTYPES (2), MCZ 14992; United States: California; Eucalantica polita (Walsingham).

securella Walsingham, 1881: 311, pi. XXXV, fig. 14, Euceratia; SYNTYPE (1 of 17), MCZ 14983; United States: California, Sonoma County, May 1871.

subfasciella Walsingham, 1881: 303, pi. XXXV, fig. 3, Araeolepia; PARALECTOTYPE (1 of 17), MCZ 14986; United States: Oregon, Currant Creek (an affluent of John Day River), 16 April 1872; Lectotype in BMNH designated by Heppner (1982: 278).

tella Walsingham, 1881: 305, pi. XXXV, fig. 6, Plutella; SYNTYPE, MCZ 14987; United States: California, San Francisco.

Family Yponomeutidae


crassivenella Zeller, 1872: 563, fig. 27, Enaemia; HO-
LOTYPee female, MCZ 15001; United States: Texas, Dallas, Boll; Lactura papula (Huebner).

Family Argyresthiidae

altissimella Chambers, 1877d: 130, 147, Argyresthia; SYNTYPE, MCZ 1412; United States: Colorado, Mount Elbert, 11,000 feet, July.

austerella Zeller, 1873: 305, fig. 38, Argyresthia; SYNTAXYPES (3 of 6), MCZ 14254; United States: Texas, Dallas, Boll.

belangerella Chambers, 1875e: 145, Argyresthia; SYNTYPE, MCZ 1407; Canada; Missing right wings.

deletella Zeller, 1873: 305, Argyresthia; SYNTYPES (3), MCZ 14254; United States: Texas, Dallas, Boll.


quadristrigella Zeller, 1873: 304, Argyresthia; IIO-
LOTYPE male, MCZ 14252; United States: Texas, Dallas, Boll; Missing abdomen.

quercicolella Chambers, 1877d: 130, Argyresthia; SYNTYPES (2), MCZ 1410; United States: Colorado, Edgerton, June.

thuiella Packard, 1871: 24, pi. 1, fig. 6, Bucculatrix; SYNTYPES, MCZ 14963; United States: Maine, Brunswick, July, on cedar tree; Argyresthia thuiellaa (Packard); Fragments of several specimens in vial.

iii mlu Intel la Chambers, 1874a: 10, Argyresthia; SYNTYPES (6), MCZ 1408; United States: Kentucky, Chambers.

Family Heliodinidae

abroniaeella Chambers, 1876b: 217, Lithariapteryx; SYNTYPES (9), MCZ 1565; United States: Colorado, Edgerton, over 6000 feet, July.

bella Chambers, 1875d: 73, Aetole; SYNTYPE, MCZ 1364; United States: Texas, August, Belfrage; Heliodities bella (Chambers).

SUPERFAMILY SESIOIDEA

Family Sesiidae
aureopurpura H. Edwards, 1880: 72, Aegeria;; HOMOTYPE female, MCZ 928; United States: Texas, Dallas, Boll; Carmenta bassiformis (Walker).

caudata Harris, 1839: 311, Aegeria;; SYNTYPES (1 male, 1 female), MCZ 26354; United States: [Massachusetts, Neponset River, 30 August 1823, Harris no. 87]; Alcathoe caudata (Harris).

cucurbitae Harris, 1828: 33, Aegeria;; SYNTYPES (5 adults and 5 pupal cases), MCZ 33258; United States: [Harris no. 249]; Mclittia cucurbitae (Harris).

denudatum Harris, 1839: 310. Troehilium; SYNTYPE, MCZ 26359; United States: [Harris no. 311]; Sesia asilipennis (Boisduval).

fulvipes Harris, 1839: 312, Aegeria; SYNTYPE, MCZ 26361; United States: [Harris no. 17]; Synanthedon fulvipes (Harris).

maculipes Grote and Robinson, 1868: 184, Zenodoxus; PSEUDOTYPE female, MCZ 929; United States: Texas, Dallas, Boll; Not a syntype according to Duckworth and Eichlin (1978: 16).
montella Chambers, 1877d: 130, Argyresthia; SYN- marginatum Harris, 1839: 309, Troehilium; SYN-

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TYPE Female, MCZ 26356; United States: New Hampshire, [Dublin], L. W. Leonard [Harris no. 38]; Pennisetia marginata I Harris).

aebraskae II Edwards, 1881 I SI, Kuhagen; HO-
I ( ) "i I' male, M< / 930; I nited States; Nebraska, Mr. Austin; Broken and in poor condition.

polisiiformi* H.n is L854; 216, Aegeria; SYNTYPES males. 2 it-males. 3 pupal cases), MCZ 26358;
I nited Malts North Carolina. Albermarle, F. J.
Kron [Harris no. 791]; Vitacea polistiformis (Har-
riss).

pyri Harris. L830; 2. \egeria; SI \ TYPE, MCZ 26363; I nited States; [Massachusetts. Dorchester and Cambridge, Harris no. 702]; Synanthedon pyri (Harris); Missing abdomen
citula Harris. 1839: 313, Aegeria; SYNTYPES (2 adults. 1 pupal shell), MCZ 26362; United States: [Harris no. 333]; Synanthedon scitula (Harris).

syringae Harris. 1839: 311, Aegeria; LECTOTYPE male. MCZ 26360; United States: [Harris no. 464]; Podosesia syringae (Harris); One male and one female paralectotype, MCZ 26360. Lectotype designated by Purrington and Nielsen (1987: 551).

tibiale Harris. 1839: 309, Trochilium; SYNTYPE female. MCZ 26355: United States: New Hampshire, [Dublin], L. W. Leonard [Harris no. 387]; Sesia tibialis (Harris).

tricincta Harris. 1839: 310, Aegeria; SYNTYPES (1 male, 1 female!), MCZ 26357; United States: [Harris mi 322]; Paranthrene tabaniformis (Rottemburg).

SUPERFAMILY COSSOIDEA

Family Cossidae

"crepera Harris. 1833: 591, Cossus"; "SYNTYPE" male MCZ 26393; United States: New Hampshire, [Dublin, L. W. Leonard. Harris no. 582]; Prionoxystus robiniae (Peck); The original description of crepera is generally cited as Harris (1935a: 592;
1835b: 72), but it is only listed there (as Cossus crepera), not described or illustrated. The first description seems to be that of Packard (1864c: 388) as Xyleutes crepera

SUPERFAMILY TORTRICOIDEA

Family Tortricidae
(including Cochylidae)

allutana Zellei 1875 295, fig. 27, Cratholitha; S'i N
n PES 2 MCZ I 1325 i nited States New York,
ind Texas, Dallas, Boll; Episimus
argutanus $ilemens$.

amphorana Walsingham, 1879: 63, pi. LXXIV, fig.
9, Semasia; SYNTYPES (2), MCZ 15006; United
States: Oregon, John Day River, Camp Watson,
April, Walsingham; Phaneta amphorana (Wal-
singham).

angleseana Kearfott, 1907a: 64, Enarmonia; PARA-
LECTOTYPE, MCZ 15014; United States: New
Jersey, Anglesea, V-00 (?), W. D. Kearfott; Gra-
pholita angleseana (Kearfott); Lectotype in AMNH
designated by Klots (1942: 398); see also Heinrich
(1926: 31).
bobana Kearfott, 1907a: 26, Eucosma; PARALEC- TOTYPE, MCZ 14322; United States: Texas, Harris County, 7-5-1899; Described from three syntypes. Heinrich (1923: 103) designated the Salida, Colorado, specimen as lectotype; it is in USNM, not AMNH as he indicated. The third specimen, from Southwest Colorado, is in AMNH (Klots, 1942: 399). See also Powell (1968:10).

bolanderana Walsingham, 1879: 42, pi. LXIX, fig. 10, Paedisca; SYNTYPE, MCZ 15003; United States: California, Mount Shasta, August 1871, Walsingham; Eucosma bolanderana (Walsingham); Missing abdomen.

cockerellana Kearfott, 1907a: 71. Tortrix; PARA- LECTOTYPE, MCZ 14320; United States: Colorado, Glenwood Springs, September 1899; Argyrotaenia cockerellana (Kearfott); Lectotype male in AMNH designated by Powell (1964: 225).

constrictana Zeller, 1875: 305, fig. 36, Paedisca; HO- LOTYPE male, MCZ 14335; United States: Texas, Dallas, Boll; Sonia constrictana (Zeller).

desertana Zeller, 1875: 306, fig. 37, Paedisca; LEC- TOTYPE male, MCZ 14338; United States: Texas,
Dallas, Boll; Epiblema desertana (Zeller); Lectotype designated by Miller (1976: 50).

dietziana Kearfott, 1907a: 92, Epinotia; PARALEC-TOTYPES (2), MCZ 14302; United States: Pennsylvania, Hazleton, W. G. Dietz; Rhopobota dietziana (Kearfott); Lectotype in AMNH designated by Klots (1942: 401); see also Heinrich (1923: 191).

dudana Kearfott, 1907a: 27, Eucosma; PARALEC-TOTYPE, MCZ 15019; United States: SW Colorado, 7-13-1889, W. G. Dietz; Missing abdomen. Lectotype in AMNH designated by Klots (1942: 401); see also Heinrich (1923: 106).

dodecana Zeller, 1875: 311, fig. 40, Paedisca; SYNTYPES (5), MCZ 14341; United States: Texas, Dallas, Boll; Pelochrista scintillana (Clemens).

eclipsana Zeller, 1875: 298, fig. 29, Crapholitha [sic]; HOLOTYPE male, MCZ 14328; United States: Texas, Dallas, Boll; Missing abdomen.

ednana Kearfott, 1907c: 161, pi. VIII: fig. 13, Phalonia; PARALEC-TOTYPES (2), MCZ 15017; United
States: Pennsylvania, Hazleton; Anopina ednana (Kearfott); Leetotype in AMNH designated by Klots (1942: 417).

exasperatana Zeller, 1875: 238, Torlrix; SYNTYPES (2), MCZ 14309; United States: Texas, Dallas, Boll; Platynota exasperatana (Zeller).

fagigemmaeana Chambers, 1878b: 74, Exartema; SYNTYPE, MCZ 15007; United States: Kentucky, Chambers; Olethreutes fagigemmaeana (Chambers); Wings only, plus pupal case. Chambers refers to a single specimen in the MCZ, but then describes both sexes.

fragariana Packard, 1869: 335, Lozotaenia; SYNTYPE, MCZ 14315; United States: Maine; Clepsis persicana (Fitch); Missing abdomen.

frigidana Packard, 1856: 57, Penthina; LECTOTYPE male, MCZ 14306; Canada: Labrador; Apo-
tomis frigidana (Packard); This species was described from two syntypes. Adamski and Peters (1986: 664) designated the lectotype (Code, Art. 74(b)). The male paralectotype is also in MCZ.

frustrana Comstock, 1880: 236, Retinia; PSEUDO-TYPES (23 + ), MCZ 30298; United States: Massachusetts, Nantucket Island, S. H. Scudder; Rhysacenia frustrana (Comstock); The name Retinia frustrana was published by both Comstock (1880) and Scudder (1883). These specimens are Scudder’s invalid type series. The lectotype in USNM designated by Miller (1967: 591).

fulvifrontana Packard, 1866: 59, Penthina; SYNTYPES (2), MCZ 14305; Canada: Labrador; Olethreutes septentrionana (Curtis).

glauofuseana Zeller, 1875: 245, Conchylis; HOLOTYPE female, MCZ 14303; United States: Texas, Dallas, Boll.

gomonana Kearfott, 1907b: 78, Eucosma; PARALECTOTYPE, MCZ 15021; United States: New Jersey, Essex County, 5-11-1900, W. D. Kearfott; Lectotype in AMNH designated by Klots (1942: 403); see also Heinrich (1923: 119).
haimbachiana Kearfott, 1907a: 51, Epinotia; PARALECTOTYPE, MCZ 14300; United States: Pennsylvania, Philadelphia, VL23-1904, F. Haimbach; Gypsonoma haimbachiana (Kearfott); Lectotype in AMNH designated by Klots (1942: 403); see also Heinrich (1923: 163).

inimicella Zeller, 1872: 559, fig. 20, Galleria; HOLOTYPE male, MCZ 14275; United States: Texas, Dallas, Boll; Pseudogalleria inimicella (Zeller).

leucophaleratana Packard, 1866: 56, Pandemis; SYNTYPE, MCZ 14331; Canada: Labrador; Ancylis tineana (Huebner).

longipalpana Powell, 1985: 67, Syllonoma; HOLOTYPE male; United States: South Carolina, Horry County, Myrtle Beach, 9 July 1943, C. T. Parsons.

marcidana Zeller, 1875: 260, Phoxopteris; SYNTYPE male, MCZ 14330; United States: Texas, Dallas, Boll; Ancylis platanana (Clemens).

merrickanum Kearfott, 1907c: 156, pi. VIII, fig. 1, Exartema; PARALECTOTYPE, MCZ 15016; United States: Pennsylvania, New Brighton, VI 1-5-1904, H. D. Merrick; Olethreutes merrickana (Kearfott); Lectotype in AMNH designated by Klots
miscana Kearfott, 1907a: 91, Eucosma; LECTOTYPE PARATYPE, MCZ 15020; United States: California, Placer County, Cisco; Epinotia miscana (Kearfott); Lectotype in AMNH designated by Klots (1942).

murina Packard, 1867: 60, Penthina; LECTOTYPE male, MCZ 14307; Canada: Labrador, Caribou Island; Olethreutes metallicana (Huebner); Lectotype designated by Miller (1985: 410); also paralectotype male.

nebulosana Packard, 1866: 61, Grapholitha; SYNTYPE male, MCZ 14312; Canada: Labrador; Gypsonoma nebulosana (Packard); An additional MCZ specimen may be a syntype. Heinrich (1923: 261) cites a male "type in the Fernald collection.

niveosana Packard, 1866: 55, Sciaphila; SYNTYPES (6), MCZ 14313; Canada: Labrador; Eana niveosana (Packard).

numerosana Zeller, 1876: 317, Paedisca; HOLONOTYPE male, MCZ 14339; United States: Texas, Dal-
las, Boll; Epiblema numerosana (Zeller).

ochromediana Kearfott, 1907a: 11, Olethreutes; PARALECTOTYPE, MCZ 14332; United States: Pennsylvania, Hazleton, 6/21/1902; Olethreutes osmundana (Fernald); Lectotype in AMNH designated by Heinrich (1926: 170).

olivaeana Fernald, 1882: 71, Eccopsis; PARALEC-
TOTYPES (2), MCZ 14334; United States: [no data]; Olethreutes olivaeana (Fernald); Lectotype in USNM designated by Miller (1970: 292).

osmundana Fernald, 1879: 156, Penthina; PARA-
LECTOTYPE, MCZ 15010; United States: Maine. Orono, feeding on Osmunda regalis, emerged July 1879, A. Allen; Olethreutes osmundana (Fernald); Lectotype in USNM designated by Miller (1970: 292).

packardi Zeller, 1875: 300, fig. 31. Grapholitha [sic]: HOLOTYPE, MCZ 14329; United States: Texas, Dallas, Boll; Missing abdomen.

peculiana Zeller, 1875: 210, fig. 1, Teras; HOLO-
TYPE female, MCZ 14316; United States: Texas, Dallas, Boll; Acleris subnivana (Walker).
perfluana Zeller. I 875 299, fig. 30, Grapholitha [sic];
HOLOTYPE female, MCZ L4327; United States:
Texas, Dallas. Boll; Sereda tautana (Clemens).

pinatubana Kearfott, 1905: 9, Eulia; PARALEC-
TYPE, MCZ 143-44; United States: Mas-achusetts. Winchendon, V-26-1902; Argyrotaenia pin-
atubana (Kearfott); Lectotype in AMNH designated
b> Klots (1942: 415).

plumholineana Kearfott, 1907a: 53, Epinotia;
PAR VLECTOTYPE, M( Z 14301; Canada: British
( olumbia, Wellington; Lectotype in AMNH des-
ignated by Klots (1942i

primulana Walsingham, 1S79: 45, pi. LXX, fig. 7,
Paedisca; SYNTAXE, MCZ 15004; United States:
( alifornia, Mendocino County, 10 June 1871, Wal-

Miidiain. Ecosma primulana (Walsingham).

prosperana Kearfott, 19071): 128, Enarmonia;
PARALECOTYPE, MCZ 15013; United States:
( alifornia, San Luis Obispo, HI-[no year], A. H. Vachell; Cydia prosperana (Kearfott); Lectotype in AMNH designated by Klots (1942: 408); see also Heinrich (1926: 57

ptychogrammos Zeller, 1875: 213, Teras hastiana variety; HOLOTYPE male, MCZ 14317; United States: Texas, Dallas, Boll; Acleris ptychogrammos (Zeller); Missing abdomen and hindwings.

quintana Zeller, 1875: 304, figs. 34, 35, Paedisca; SYNTYPES (2), MCZ 14340; United States: Texas, Dallas, Boll; Eucosma robinsonana (Grote).

raracana Kearfott 1907a: 44, Thiodia; PARALETOTYPE, MCZ 14320; United States: [no locality], ["8-12-99"]; Phaneta raracana (Kearfott); Lectotype in NH designated by Heinrich (1923: 41).

geriatana Zeller, 1875 244, Conchylis; HOLOTYPE male. MCZ 11301; United States: Texas, Dallas, Boll; Aethes seriatana (Zeller).

sescuplana Zeller, 1875 220, Torlrix; SYNTYPES I \K IZ 14314; United States: Texas, Dallas, Boll; Clepsis virescana (Clemens).

Bpaldingana Kearfott, 1907a: 19, Eucosma; PARAD}
LECTOTYPE, MCZ 14321; United States: Utah, Stockton, "VII-26-3", T Spaulding; Lectotype in \M\II designated by Klots (1942: 410); see also Heinrich 192 - M spiculana Zeller, L875 2s>) fig. 23, Grapholitha; HO-LOTYP1 female, M( :Z 1 132 I I nited States: Tex-Dallas, Boll; Phaneta spiculana (Zeller); Missing abdomen and tiulit forewing.

terracoctana Walsingham, 1879: 39, Paedisca; S 1 ! N-TYP1 \K / r 5 I nit. d States California. Mount Shasta; Epinotia terracoctana (Walsingham); This species was described from 7 syntypes from Mi unit Shasta. Six syntypes and an additional 24 specimens from Mount Shasta and Mendocino City are now in the BMNH. Like other Walsingham California syntypes in the MCZ, this specimen does not bear labels in Walsingham's own handwriting, but was presumably received by Chambers.

tessellana Packard, 1866: 58, Penthina; SYNTYPES (6), MCZ 14308; Canada: Labrador; Olethreutes intermistana (Clemens).
testulana Zeller, 1875: 241, Cenopis; HOLOTYPE male, MCZ 14311; United States: Texas, Dallas, Boll; Sparganothis directana (Walker).

trifurculana Zeller, 1875: 226, Tortrix; SYNTYPE, MCZ 14319; United States: Texas, Dallas, Boll; Argyrotaenia quercifoliana (Fitch); Missing left forewing.

tripartitana Zeller, 1875: 308, fig. 39, Paedisca; HOLOTYPE female, MCZ 14337 United States: Texas, Dallas, Boll; Epiblema tripartitana (Zeller).

tristriata Kearfott, 1907a: 67, Sparganothis; SYNTYPE, MCZ 14310; United States: Minnesota, Duluth, 

"15. Fern/new"]; Missing right forewing, 1 cotype in AMNH (Klots, 1942: 416).

variolana Zeller, 1875: 212, Teras; HOLOTYPE male, MCZ 14318; United States: Texas, Dallas, Boll; Acleris minuta (Robinson).

vertumnana Zeller, 1875: 310, Paedisca; LECTOTYPE female, MCZ 14336; United States: Texas, Dallas, Boll; Epinotia vertumnana (Zeller); Lectotype designated by Brown (1987: 343).

verutana Zeller, 1875: 247, Bactra lanceolana variety; SYNTYPES (2), MCZ 14333; United States:
Texas, Dallas, Boll; Bactra verutana Zeller.

vestaliana Zeller, 1875: 286, fig. 21, Grapholitha [sic];
HOLOTYPE male, MCZ 14323; United States:
Texas, Dallas, Boll; Hystrichophora vestaliana (Zeller); The holotype is a male, not a female as stated by Zeller.

vitivorana Packard, 1869: 336, pi. 8, fig. 22, Penthina;
SYNTYPE, MCZ 15008; United States: Ohio, Hudson, M. C. Reed; Endopiza viteana Clemens; Missing abdomen and right hindwing.

worthingtoniana Fernald, 1878: 83, Paedisca; SYNTYPE, MCZ 14342; United States: "North Illinois"; [June], C. E. Worthington; Eucosma bipeunctella (Walker).

/ana Kearfott, 1907a: 61, Enarmonia; PARATYPE, MCZ 15015; Canada: British Columbia, Wellington, VI-[no year], T. Bryant; Grapholita caeruleana Walsingham; Lectotype in AMNH designated In Klots (1942: 412); see also Heinrich (1926: 31).
SUPERFAMILY ZYGAENOIDEA

Family Zygaenidae

sanborni Packard, 1864a: 32, Harrisina; HOLOTYPE [?], MCZ 27316; United States: Virginia, Alexandria, J. O. Treat; Acoloithus falsarius Clemens; This may not be the holotype, which was "loaned ... by Mr. Sanborn."

Family Limacodidae

bifida Packard, 1864c: 338, Euclea; SYNTYPES [?]

(2 males), MCZ 16028; United States: Maine, Brunswick, "at light", August; Euclea delphinii (Bois-duval).

biguttata Packard, 1864c: 341, Limacodes; SYNTYPE, MCZ 26382; United States: Pennsylvania [Harris no. 753]; Apoda biguttata (Packard); Two additional Harris specimens may be syntypes.

cinereum Forbes, 1942: 389, Palaeophobetron; HOLOTYPE male, MCZ 26268; Panama: Canal Zone, Barro Colorado Island, 31 December 1934, [A. Friedman]; Label states collector was A. Friedman,
not M. Bates as stated by Forbes.

ephippiatus Harris, 1869: 301, pi. I, fig. 7, pi. II, fig. 10, Limacodes; SYNTYPES (2 males, 2 females, 3 pupal cases), MCZ 33259; United States; "probably from Pennsylvania", T. Hill [Harris no. 775]; Acharia stimulea (Clemens) (see Becker and Miller, 1989).

ferruginea Packard, 1864c: 338, Euclea; HOLO-TYPE female, MCZ 16027; United States: "St. Catharines, C. W. (Coll. Scudder)"; Euclea delphinii (Boisduval); Specimen is a female, not a male as stated by Packard.

geminata Packard, 1864c: 343, Cyrtosia; SYNTYPE male, MCZ 16031; United States: Maryland, Janesville, R. Stratton; Packardia geminata (Packard); Packard (1964) and Tietz ([1952]: 151) record syn-type(s) from Philadelphia in ANSP.

monitor Packard, 1864c: 337, Euclea; SYNTYPES (2 males), MCZ 16029; United States: Massachusetts, Cambridge and Boston; Euclea delphinii (Boisduval); Additional 2 male, 2 female syntypes in Harris Collection.

testacea Packard, 1864c: 348, Tortricidia; SYN-
TYPES (2), MCZ 26384; United States: [Harris no. 315].

y-inversa Packard, 1864c: 341, Limacodes; HOLOTYPE, MCZ 26383; United States: Pennsylvania [Harris no. 781]; Apoda ij-inversa (Packard); A pseudotype in main collection, MCZ 16030.

Family Megalopygidae

crispata Packard, 1864c: 335, Lagoa; SYNTYPES (1 male, 1 female), MCZ 27315; United States: Massachusetts, Brookline, C. A. Shurtleff; Megalopyge crispata (Packard); Packard notes "thirteen specimens reared from the blackberry bush by Mr. Shurtleff."

immaculaia Cassino, 1928. 91, Lagoa; HOLOTYPE male, MCZ 32865; United States: Texas, Davis Mountains, 1-7 February 1926, O. C. Poling; Megalopyge immaculaia (Cassino); Probably a synonym of Megalopyge laycei (Barnes and McDunnough).

pulla Forbes, 1942: 401, Trosia; HOLOTYPE female, MCZ 26269; Panama: Canal Zone, Barro Colorado Island, 10 October 1934, M. Bates.
SUPERFAMILY PYRALOIDEA

Family Pyralidae


anticostalis Grote, 1871: 104, Botys; SYNTYPES (1 male, 1 female), MCZ 14263; United States: Alabama, "about Demopolis"; Eulepte anticostalis (Grote).

argillaceellus Packard, 1867: 54, Crambus; SYNTYPES (2), MCZ 14295; Canada: Labrador, Square Island, 14 July 1864; Raphiptera argillaceella (Packard).


borealis Packard, 1867: 53, Pyrausta; HOLOTYPE female, MCZ 14270; Canada: Labrador, Square Island, 14 July [1864]; Pyrausta subsequalis borealis Packard.
caeculalis Zeller, 1875: 333, pi. 10: fig. 46, Perispasta; 
HOLOTYPE male, MCZ 14259; United States: 
Texas, Dallas, Boll.

californicalis Packard, 1873a: 264, Eromene; LECTOTYPE male, MCZ 14297; United States: California, H. Edwards; Euchromius californicalis (Packard); Capps (1966: 5) saw two of the three males now in the collection, and designated one of the two as lectotype, without so labelling it. Since there are three specimens, not two, it is not clear which one is the lectotype. One of the three may not be a syntype because it was collected by Behrens, not Edwards.

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carpenterellus Packard, L874: 348, fig. 1, Crambus; 
SYNTYP1 S I ol 8), MCZ 14299; United States: 
(olorado, "Mountains of Colorado", 19 July, 12 Vugust, and 8 September 1873, W. L. Carpenter; 
('rambus hamellus carpenterellus Packard; Brown L972: 217) restricted the type locality to Weston lass. Park County, Colorado.
comptoniella Hulst, 1890; 125. Acrobasis; LECTO-H PE male, MCZ 14283; United States: New York, Long Island, July; Lectotype designated by Neunzig (1986 56]

consobrinella Zeller L872: 548, Nephopteryx; H0-
LOTYPE male, MCZ 14287; United States: Texas, Dallas, Boll; Glyptocera consobrinella (Zeller).

cuprina Zeller. L872: 497, Aglossa; SYNTAXES (1 male, 1 female), MCZ 14257; United States: Texas, Dallas, Boll.

decinierella Hulst, 1SSS: 117, Lipographis; Probable S \ n PE female, MCZ 14288; United States: Tex-
as, Blanco County, August; Stylopapia scobiella Grote).

edmandsii Packard. 1864b: 120, Nephopteryx; SYN-
TYPE, MCZ 14278; United States: Massachusetts;
Vitula edmandsii (Packard).

electella Hulst. 1887: 137, Anerastia; Probable SYN-
TYPE, MCZ 14279; United States: Texas, Blanco County; Homoeosoma electella (Hulst).
fenestrella Packard, 1873a: 259, Pempelia; SYNTAXYPES (2 of 6), MCZ 14292; United States: California, H. Edwards; Lipographis fenestrella (Packard . Edwards number 711 indicates Angel Island, April.

feriella Hulst. 1888: 115, Tacoma; Probable SYNTYPE, MCZ 14286; United States: Texas, [Blanco (ount) . August].


frigidella Packard. 1867: 53, Eudorea; SYNTYPE, MCZ 14296; Canada: Labrador, Caribou Island; Pyla fusca (Haworth); Abdomen missing.

fulminalis Zeller IS72 560, fig. 19, Melissoblaptes;

HOLOTYPE male. MCZ 11276; United States: Texas, Dallas. Hoik Paralipsa fulminalis (Zeller).

glacialis Packard L867: 52, Botys; HOLOTYPE female MCZ L5354 Canada: Labrador, fiopedale,
1867 indicates one sex only and no range of size.


*Leptomia* hospitella (Zeller); Lec-

in PM designated by Heinrich (1956:)

*Integra* Zeller, 1873: 328, fig. 44, *Scoptonoma*; SYNTYPES (3), MCZ 16094; United States: Texas, Dallas, Boll; *Lineodes* integra (Zeller); Although labelled as types by Hagen, these specimens were probably not seen by Zeller, who described the species from "Ein paar in meiner Sammlung, mehrere nach Hagens Angabe im Cambridge Museum."

*Interrupta* Zeller, 1873: 329, *Scoptonoma*; SYNTYPES (4), MCZ 16093; United States: Texas, Dallas, Boll; *Lineodes* interrupta (Zeller); As with *Scoptonoma* integra above, Zeller probably did not see these specimens.


*Leoninella* Packard, 1873a: 259, *Pempelia*; SYN-
TYPES (2 of 3), MCZ 14293; United States: California, H. Edwards; Lipographis leoninella (Packard); Edwards number 706 indicates San Mateo County, pastures, May.

lentiflualis Zeller, 1872: 525, Homophysa; SYNTYPE, MCZ 14274; United States: Texas, Dallas, Boll; Aethiophysa lentiflualis (Zeller).

melanogrammos Zeller, 1872: 546, fig. 24, Tetralophpha; HOLOTYPE male, MCZ 14256; United States: Texas, Dallas, Boll; Specimen illustrated by Holland and Schaus (1925: 65).

metalliferalis Packard, 1873a: 265, Calaclysta; SYNTYPES (2 of 4), MCZ 33257; United States: California, H. Edwards; Dicymolomia metalliferalis (Packard); Edwards number 208 indicates San Mateo County, marshy places. May.

mustelinalis Packard, 1873a: 262, Botys; SYNTYPES (2 of 2), MCZ 14269; United States: California, H. Edwards; Mecyna mustelinalis (Packard); One specimen has Edwards number 773 indicating Angel Island, May.

occidentalis Packard, 1873a: 260, Scopula; LECTOTYPE female, MCZ 14264; United States: California,
ifornia, H. Edwards; Achyra occidentalis (Packard); Lectotype designated by Capps (1967: 51).

Edwards number 716 indicates Point Lobos, pastures, May.

ochrifrontella Zeller, 1875: 337, Ephestia; HOLOTYPE male, MCZ 14280; United States: Texas, Dallas, Boll; Eulogia ochrifrontella (Zeller).

octonalis Zeller, 1873: 211, Orobena; HOLOTYPE male, MCZ 14273; United States: Texas, Dallas, Boll; "Lygropia" octonalis (Zeller) (needs new genus according to Munroe, pers. comm.).

ovalis Packard, 1873b: 269, Pempelia; HOLOTYPE, MCZ I42N9; nited States: Maine, A. S. Packard; Telethusia ovalis (Packard); Missing abdomen.

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perrubralis Packard, 1873a: 264, Botys; SYNTYPES (2 of 3), MCZ 14267; United States: California; Pyrausta perrubralis (Packard).
plumbicostalis Grote, 1871: 103, Botys; HOLOTYPE male, MCZ 32943; United States: Alabama, "about Demopolis"; Lygropia plumbicostalis (Grote); Pro-thorax, left forewing, and right wings only.

profundalis Packard, 1873a: 261, Botys; SYNTYPES (2 of 5), MCZ 14271; United States: California, H. Edwards; Udea profundalis (Packard); Edwards number 705 indicates San Mateo County, pastures, May.

reniculalis Zeller, 1872: 526, Homophyza; SYNTYPE male, MCZ 14261; United States: Texas, Dallas, Boll; Nephrogramma reniculalis (Zeller).

roseatella Packard, 1873b: 270, Nephopteryx; LECTOTYPE male, MCZ 14282; United States: Massachusetts, Dorchester, F. G. Sanborn; Peoria approximella (Walker); Lectotype, and paralectotype also in MCZ, designated by Shaffer (1968: 30).

semirubralis Packard, 1873a: 263, Botys; HOLO-TYPE male, MCZ 14268; United States: California, [Sausalito, 6 May 1872], H. Edwards, Pyrausta semirubralis (Packard); A second male from "S. Nevada" (Sierra Nevada Mountains of California) is also labelled "type" in Packard's handwriting, but is probably not the holotype, since there are other specimens in the MCZ with the same data but without type labels.


sesquialteralis Zeller, 1873: 209, fig. 5, Botis; HOLOTYPE male, MCZ 32924; United States: Texas, Dallas, Boll; Microtheoris o. ophionalis (Walker).

sincera Zeller, 1875: 332, Oectoperia; SYNTYPES (2 of 2), MCZ 14258; United States: Texas, Dallas, Boll; Salobrena sincera (Zeller).

subdivisalis Grote, 1871: 126, Desmia; HOLOTYPE [?], MCZ 14260; United States: Alabama, "about Demopolis"; Specimen consists of right wings only.
subolivalis Packard, 1873a: 261, Botys; SYNTYPES (2), MCZ 14266; United States: Maine, Brunswick, in grass uplands, and Orono, Maine, A. S. Packard, Jr.; Pyrausta unifascialis subolivalis (Packard).

tetradella Zeller, 1872: 552, Anerastia; PARALEC-TOTYPES (2), MCZ 14281; United States: Texas, Dallas, Boll; Peoria tetradea (Zeller); Lectotype in BMNH designated by Shaffer (1968: 17).

unifascialis Packard, 1873a: 261, Botys; SYNTYPES (2 of 2), MCZ 14265; United States: California, H. Edwards; Pyrausta unifascialis (Packard); Klots (1942: 422) designated a lectotype and paralectotype in AMNH. However, the MCZ specimens are probably the real types, since Packard kept the other types of California Pyralidae from Edwards. Beutenmueller (1892: 196) listed one type in Will

unistriatellus Packard, 1867: 54, Crambus; SYNTYPE male, MCZ 22641; Canada: Labrador, Caribou Island.

vibicalis Zeller, 1873: 208, fig. 4, Botis; HOLOTYPE male, MCZ 14272; United States: Texas, Dallas. Boll; Microtheoris vibicalis (Zeller) (see Munroe, 1972: 147, about misspelling of name as ribicalis).
Family Thyrididae

dimiata Forbes. 1942: 345, Bhodoneura; HOLOTYPE female, MCZ 26263; Panama: Barro Colorado Island, 2-XII-1934, M. Bates; Missing abdomen.


maculata Harris 1839: 313, Thyris; SYNTYPES (4), MCZ 26346; United States: [New Hampshire, Harris no. 219]; All missing abdomens.

mesogramma Forbes, 1942: 341, Ochrothyris; HOLOTYPE male, MCZ 26265; Panama: Barro Colorado Island, 10-1-1935, A. Friedman.

SUPERFAMILY PTEROPHOROIDEA

Family Pterophoridae

cervinidactylus Packard, 1873a: 266, Pterophorus; HOLOTYPE, MCZ 1785; United States: California, H. Edwards; Platyptilia pallidactyla (Haworth); Missing right wings and abdomen.
cineraceus Fish, 1881: 73, Oidaematophorus; SYNTYPE male, MCZ 1781; United States: Washington Territory, H. K. Morrison; Barnes and Lindsey (1921: 392) consider this specimen a paratype.

grandis Fish, 1881: 141, Lioptilus; "LECTOTYPE" male, MCZ 1782; United States: California; Oidaematophorus grandis (Fish); Cashatt (1972: 5) designated this specimen as lectotype, unaware of a previous lectotype designation by Klots (1942: 423) of a female in the AMNH.

lacteodactylus Chambers, 1873: 72, Pterophorus; HOLOTYPE male, MCZ 1783; United States: Kentucky, Chambers; Oidaematophorus lacteodactylus (Chambers); Missing abdomen.

paleaceus Zeller, 1873: 326, LeJoptilus; SYNTYPES

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M< / L787; United States: Texas, Dallas, Boll;
Oidaematophorus paleaceus (Zeller).
per gracilidactylus Packard, 1873a: 265. Pterophorus; HOLOTYPE, MCZ L786; United States: California, H. Edwards; Emmelina monodactyla (Linnaeus); Missing left wings and abdomen.

pumilio Zeller. L873: 324, Mimesoptilus; HOLOn i'1. male. MCZ 1788; United States: Texas, Dallas, Boll: Marasmarcha pumilio (Zeller).
	x-micostatus Zeller. 1873: 323. Mimeseoptilus; SYN TYPES (2 of 2), MCZ 1789; United States: Texas, Dallas, Boll: Stenoptilia zophodactyla (Duponchel); One male and one female, although Zeller stated two males.

sulphureodactylus Packard, 1873a: 266, Pterophorus; SYNTYPES (6 of 8), MCZ 1784; United States: California, Siskiyou County, Goose Lake, 26-27 July, J. Holleman; Oidaematophorus sulphureodactylus (Packard).

APPENDIX

Chambers "types" in the British Museum (Natural History)

The collection of the BMNH contains
specimens sent by Chambers to Stainton in the 1870s. Some of them probably are syntypes of Chambers' species, others are not syntypes but are topotypes, and others are taxa described by other authors. The topotypes might prove useful to document Chambers' species concepts, or as neotype candidates.

There are three lots of Chambers specimens now in the Stainton collection. The August 1877 shipment to Stainton was accompanied by the following letter from Chambers:

"Wishing to preserve types of species of Tineina described by me, and likewise to make some acknowledgement ... it has been my intention to send you as complete a collection of the species of this region [Covington, Kentucky] as 1 could make. Unfortunately during my absence in Colorado more than half the collection that I had made before I went there was destroyed, and the remainder with a small collection that I made in Colorado, was sent to the. [MCZ]. This spring and summer I have attempted to supply a few cab-
in this country and your own. Un-

fortunately the continued ill-health of my son again calls me to Colorado and un-
willing to risk the destruction of my col-
lection while I am absent I distribute it —
so far as I have renewed it — now. I enclose
here with 67 species of Tineina and one of Tortricina."

The specimens are listed here as iden-
tified by Chambers. We have made no attempt to verify identifications. The lo-
calities listed here are those indicated by Chambers in correspondence or on labels,
and are not necessarily the type localities. The first lot, sent December 1876, includes
Lithariapteryx abroniaeella Chamber
"from Colorado where the larva mines the leaves of Abronia fragrans up to an alti-
tude of about 7,000 feet above sea level" and Batrachedra praeangusta Chambers from Colorado.

The second lot, sent in January 1877, now includes 5 species, but originally in-
cluded 6.

1. Lithariapteryx abroniaeella Chambers
Colorado

2. Lithocolletis salicifoliella Chambers

3. Lithocolletis amphicarpeaeella Chambers Kentucky

4. Laverna magnatella Chambers = Laverna oenotheriella Chambers

5. Gracilaria [sic] salicifoliella Chambers

6. Eurynome albella Chambers Colorado
   [must have been damaged in transit, not at BMNH]

The largest lot was sent in August 1877. All bear Chambers’ handwritten numbers and Stainton’s name labels. The numbers not cited in the following list refer to species described by authors other than Chambers.

1. Xylesthia clemensella Chambers Kentucky

2. Tinea bimaculella Chambers Kentucky
3. Tinea caemetariella [sic] Chambers Kentucky

5. Semele cristatella Chambers Kentucky

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MCZ Microlepidoptera Types • Miller and Hodges 75

6. Agnippe biscolorella Chambers Kentucky

7. Hyponomeuta longimaculella Chambers Kentucky

8. Depressaria eupatoriiella Chambers Kentucky

9. Gelechia querciella Chambers Kentucky

10. Gelechia cristatella Chambers Kentucky

11. Gelechia rubensella Chambers Kentucky
13. Helice pallidochrella Chambers Kentucky

17. Argyresthia undulatella Chambers Kentucky

18. Gracilaria packardella [sic] Chambers Kentucky

19. Corisium albanotella Chambers Kentucky

20. Gracilaria [sic] fasciella Chambers Kentucky

21. Gracilaria [sic] purpuriella Chambers Kentucky

23. Coleophora ochrella Chambers Kentucky

24. Coleophora caryaefoliella Chambers Kentucky

25. Laverna cephalanthiella Chambers Kentucky
26. Chrysopelia purpuriella Chambers
Kentucky

27. Laverna? gleditschiaella Chambers
Kentucky

28. Perimede erransella Chambers Kentucky

30. Dryope murtfeldtella Chambers Kentucky

31. Tischeria quercivorella Chambers
Kentucky

32. Tischeria heliopsisella Chambers Kentucky

33. Bucculatrix luteella Chambers Kentucky

35. Philonome clemensella Chambers Kentucky

36. Phyllocnistis vitfoliella Chambers Kentucky

37. Phyllocnistis ampelopsiella Chambers Kentucky
40. Leucanthiza amphicarpeaefoliella
   Chambers Kentucky

41. Lithocolletis clemensella Chambers
   Kentucky

43. Lithocolletis fuscocostella Chambers
   Kentucky

44. Lithocolletis celtisella Chambers
   Kentucky

45. Lithocolletis cincinnatiella Chambers
   Kentucky

47. Lithocolletis ulmella Chambers Kentucky

49. Lithocolletis tiliaeella Chambers
   Kentucky

50. Lithocolletis ornatella Chambers Kentucky

51. Lithocolletis corylisella Chambers Kentucky
52. Lithocolletis ambrosiaeella Chambers
Kentucky

53. Polyhymno sexstrigella Chambers
Texas

54. Perimede unomaculella Chambers
Texas

55. Elachista parvipulvella Chambers
Texas

58. Ornix prunivorella Chambers Kentucky

59. Gelechia fuscoochrella Chambers
Kentucky

60. Lithocolletis tritaenialae Chambers
Kentucky

61. Nepticula apicialbella Chambers
Kentucky

63. Gracilaria 12-lineella Chambers Kentucky

64. Gelechia bimaculella Chambers Kentucky
tucky

65. Lithocolletis corylisella Chambers
Kentucky

66. Gelechia variella [sic] Chambers Kentucky

68. Microaethia amphicarpeaeana
Chambers Kentucky

The correspondence also indicates a shipment in November 1872 which included 41 Chambers species. However, these specimens could not be located at the BMNH.
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