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Moths and Butterflies of Vermont (Lepidoptera)

A Faunal Checklist



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A Faunal Checklist

Compiled and edited by

John R. Grehan, Bruce L. Parker¹,

Gordon R. Nielsen², Donald H. Miller³,

James D. Hedbor⁴, Michael Sabourin⁵, and M. Scott Griggs⁶

¹Entomology Research Laboratory, Department of Plant and Soil Science, University of Vermont, P. O. Box 53400, Burlington, Vermont 05405; ²University Extension System, Department of Plant and Soil Science, University of Vermont, Burlington, Vermont 05405. Current address RR1, Box 1010, Hinesburg, VT 05461; ³Department of Science, Lyndonville State College, Lyndonville, Vermont 05851; ⁴P.O. Box 203, South Hero, Vermont 05486; ⁵763 Blair Avenue, St. Paul, Minnesota 55104; ⁶Lovers Lane, Grand Isle, VT 05458.

Introduction

Vermont butterfly and moth specimens and records widely dispersed among out-of-state collections are not readily accessible to researchers and persons interested in the local fauna. This publication documents identifications made primarily from adult specimens held in the Entomology Research Laboratory (ERL), the Carl T. Parsons Collection (CTP), reference collections at various Vermont State agencies, and private collections of the authors. The list represents a major step forward in the establishment of a Vermont State voucher inventory of Lepidoptera. Most of the records are from specimens collected in northwestern Vermont (map p. 87). Many specimens were collected from light traps at UVM's Research Forest at Jericho, the Vermont Monitoring Cooperative survey sites on Mount Mansfield in Underhill, and the Horticultural Research Center in South Burlington. The compilation of records took place over the last four years and the list gives priority to the ERL holdings of over 1,460 species and 10,000 specimens. The catalogue lists a total of 1,779 species in 682 genera, with 955 macro-moths (Noctuoidea, Sphingoidea, Bombycoidea, Geometroidea, Drepanoidea, Zygaenoidea, Papilionoidea, Hesperoidea) including 89 butterfly species in 48 genera. Cross reference to published illustrations are given for some species, and French common names are provided where possible.

Past Monitoring Efforts

Noted North American entomologists and others have collected in Vermont for many years, and the Parsons' collection, for example, contains specimens he collected throughout Vermont over a century ago. Albert F. Winn from Montreal forayed into New England in the early 1900's (Winn 1912), and some of the type specimens now housed in the American Museum of Natural History are from Franklin County.

Insect records over the last 40 years were published weekly during the growing season by the UVM Extension Service (Nielsen and MacCollom 1965-90), and biennial reports of the Vermont Department of Forests and Parks and the Vermont Department of Agriculture provided a historical record of pest occurrence and management activities in the State (Anonymous 1954-1976). Major forest pest outbreaks of this century have been reviewed by Fowler et al. (1986), and Parker et al. (1989). Vermont pest records are now directly entered into the database of the USDF-APHIS Vermont Cooperative NAPIS Program. In addition, the computerized records from the "Vermont Pest Survey and Detection Program" are housed by the USDA at Fort Collins, Colorado. Forest pest conditions and

records are reported annually by the Vermont Department of Forests, Parks and Recreation (Teillon et al. 1982-94) and this agency administers a program of long-term monitoring of forest insects under the Vermont Monitoring Cooperative.

Future Monitoring and Survey

We recognize that the presentation of a faunal record for Vermont is a dynamic process. Many interesting facets require further work. The current list could be supplemented by searching for Vermont records in regional collections such as in major institutions in the eastern United States and Canada. All field identified species listed here need to be confirmed by collecting or rearing adults, and further specialist confirmation of identification made where necessary. Development of a data storage and retrieval system documenting Lepidoptera distribution, seasonality, habitat and food requirements for use by local and regional planners and others is highly desirable.

Preface to Catalogue

(a) Incorrect published records

457 *Thyridopteryx ephemeraeformis* (Haw., 1803). Vermont included within the species range by Johnson and Lyon (1976) but the insect is not yet established in the state. Introduced on coniferous nursery stock, intercepted and eradicated.

(b) Endangered, threatened, or special interest species

Vermont Endangered Species Committee: Subcommittee on Invertebrates. Chairman R. T. Bell. Vice Chairman G. R. Nielsen (Nielsen 1990a).

2446 *Argyresthia castaneella* Bsk., 1915
The chestnut ermine moth was listed in 1988 as of special concern. Not recorded for many years. Host virtually exterminated. Removed from list 1990.

4452 *Speyeria idalia* (Drury, 1773)
Listed 1990 as species of special concern. Collected in Pomfret, VT, 17 July 1941 (Vermont Nongame Natural Heritage Program, VNGH).

4196 *Pieris virginiensis* (Edw., 1870)
Listed 1990 as species of special concern. Known to be associated with rich mesic forests. Records in Vermont at the northeastern limit of its range. Common in southern Green Mountain National Forest, 1994.

6274 *Itame ribearia* (Fitch, 1848).
Listed in the 1985 State Element Ranking Forms

(VNGNH) as probably historically statewide, but populations possibly reduced by destruction of *Ribes* (alternate host of white pine blister rust) during the 1950-60's. Single specimen collected 6 July 1991, Bakersfield, Franklin Co. by Jim Hedbor.

8804 *Catocala marmorata* Edw., 1864.
One record only. Listed 1988 as of Special Concern. Doubtfully ever present as a breeding population. Removed from list 1990.

9429 *Lemmeria digitalis* (Grt., 1882).
Listed in the 1986 State Element Ranking Forms (VNGNH) as unknown since a pre-1930 record from Bolton Mountain. Seven specimens collected in Hinesburg, September-October 1991-1993, and one from Camp Johnson (Colchester), October, 1991.

9589 *Properigea costa* (B. & Benj., 1923).
One female caught in a residential area in Shelburne, Chittenden County, on July 7 1962 by John H. Hessel. The specimen is deposited in the Peabody Museum at Yale. This species is associated with shale, granite, or limestone barrens, and could breed in the Champlain lowlands of Vermont where many limestone outcrops occur. (D. F. Schweitzer personal communication). Listed as *Properigea* species 1, a species of special concern (Anon. 1989).

10336 *Lasionycta taigata* Lafontaine, 1988.
A bog associate. Single record from Moose Pond, Essex County, a female collected 18 June 1975 by T. L. McCabe. A paratype in Lafontaine and Kononenko (1988). Listed as *Lasionycta* species 1, species of special concern (Anon. 1989).

7704 *Eacles imperialis* (Drury, 1773).
Specimen in the Carl T. Parsons Entomological Collection (UVM) collected July 1893. Collector not known. Last seen in Vermont in 1934. A species of Special Concern 1990.

7812 *Sphinx drupiferarum* J. E. Smith, 1797.
Specimen in the Carl T. Parsons Entomological Collection (UVM), collected 20 June 1950, Montgomery Village by C. T. Parsons. Individual records at West Sandgate, 2 June 1951, and Craftsbury 9 June 1961 (VNGNH). A species of Special Concern 1990. Since listing there have been three additional Chittenden Co. records. Milton, 12 August 1984 (GRN), Hinesburg, 4 June 1992 (GRN) and 14 July 1992 (GRN).

7796 *Sphinx eremitus* (Hbn., 1823).
Specimen collected 19 July 1990 by Ms Jessica Luzatto in Burton Island State Park, Franklin

County. Last previous record 1940, Windsor County. A species of Special Concern 1990.

(c) New Vermont records of general interest

18 *Sthenopis argenteomaculatus* (Harr., 1842).
Widespread in New England (David Wagner, personal communication.). Reared in June 1990 from pupae extracted from swamp alders from Orange Co. by J. R. Grehan and J. Rosovsky. One adult collected in Hinesburg, Chittenden Co., 9 August 1991 by G. R. Nielsen. Other specimens since recorded from Jonesville, and Grand Isle.

21 *Sthenopis thule* Stkr., 1875.
Single specimen collected 25 July 1992 at street light in South Hero, Grand Isle Co. by Jim D. Hedbor. Species known to feed on willows.

22 *Sthenopis auratus* Grt., 1878.
Published record from Camel's Hump at 3,000' elevation (McCabe and Wagner 1989). Observed in July 1990 as a common species in Jericho Research Forest (600'), Richmond, Chittenden Co. Probably common throughout much of Vermont.

4064 *Poanes viator viator* (Edw., 1865)
Not an expected record (D. F. Schweitzer personal communication, 1994). Found common in wetland at Shaw Mountain Nature Conservancy Reserve, Addison Co. (1994), and two specimens collected from wet meadow at Grand Isle, Grand Isle Co (1993). A mid-western species with previous known eastern limit in central/western New York with a possible record at Albany (Shapiro 1974). Generally not a common species (Holmes et al. 1991) and rare east of Ohio compared with *Poanes viator zizaniae* Shapiro, 1971 which is rapidly expanding its range with the introduced plant *Phragmites australis*, and could eventually appear in Vermont.

4611 *Oeneis jutta* (Hbn., 1805-6).
Collected and identified from Ferdinand, Essex Co., 6 June 1987 by Donald H. Miller.

8022 *Hyparpax aurora* (J. E. Smith, 1797).
Collected at light on Bear Mountain, southern Vermont by Howard Romack.

10414 *Lacinipolia implicata* McD., 1937.
Single individual collected at bait in a residential birch-beech-maple forest on Brownell Mountain, Williston, Chittenden Co. on 22 August 1988 by Dale F. Schweitzer and Everett Marshall (D. F. Schweitzer collection). Single specimens also collected on 16 August 1974 in Hinesburg,

- Chittenden Co. by Gordon R. Nielsen, and 3 September 1991 in Bristol, Addison Co. by Eva N. Doane. An additional 28 specimens have been collected between 19 August and 3 September 1991-1993 at Hinesburg, and 4 specimens from Geprags Community Park, Hinesburg, August 1994 by John R. Grehan.
- 8702 *Zale submediana* Strand, 1917.
Collected at Jericho Research Forest, Chittenden Co. (May, 1990). Associated with pine barrens and abundant in New Jersey, Cape Cod (MA), and some parts of the Great Lakes region. Larvae feed on pines. Not an unexpected record and a species that should have been common in the past in sand plain areas near Burlington (Dale F. Schweitzer personal communication, 1991).
- 8350 *Zanclognatha martha* Barnes, 1928.
Collected at Jericho Research Forest (July 1990). Recorded from pitch pine/scrub oak barrens in Pennsylvania and northward. The Jericho population may have colonized pines from a remnant pine barren (Dale F. Schweitzer, personal communication, 1991).
- 9992 *Pachypolia atricornis* Grt., 1874. Adults recorded between 12 September and 15 October from 1991 - 1994 at the Proctor Maple Research Forest, Chittenden Co. This species is among the least often collected noctuids in eastern North America. In all cases collectors have noted no unusual habitats or woody plants close by. Habitats appear to comprise ordinary mesic northern hardwoods on non-acidic soils. The insect is recorded from NH, VT, NY, MD, KY, MO, IL, MI, and MN. In most of these states there is but one known locality and often just from a single specimen (D. F. Schweitzer, personal communication, 1991).
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List Format

Specimens maintained in the Lepidoptera collection at the Entomology Research Laboratory, UVM, Burlington, VT., are designated by a collection number in parentheses. Vermont specimens maintained in other collections are identified as follows:

- (AMNH) American Museum of Natural History, New York, NY.
- (BMC) Biology Department, Middlebury College, Middlebury, VT.
- (CNC) Canadian National Collection, Ottawa, Ontario, Canada
- (CTP) Carl T. Parsons Entomological Collection, UVM, Burlington, VT.
- (DFS) Dale F. Schweitzer collection, Port Norris, NJ.
- (DHM) Donald H. Miller, Lyndonville, VT.
- (DLW) David L. Wagner, University of Connecticut, Storrs, CT.
- (ERL) Entomology Research Laboratory, UVM, Burlington, VT.
- (FPRM) Department of Forests, Parks and Recreation, Morrisville, VT.
- (GRN) Gordon R. Nielsen, Hinesburg, VT.
- (HR) Howard Romack, Jr. collection, Cambridge, NY.
- (JDH) James D. Hedbor collection, South Hero, VT.
- (MCZ) Museum of Comparative Zoology, Harvard University, Cambridge, MA.
- (MS) Michael Sabourin, St. Paul, MN.
- (MSG) M. Scott Griggs, Grand Isle, VT.
- (NYSM) New York State Museum, Albany, NY.
- (PMY) Peabody Museum, Yale University, New Haven, CT.
- (TLM) Timothy L. McCabe collection, Albany, NY.
- (USNM) United States National Museum, Washington, DC.
- (VDA) Department of Agriculture, Food and Markets, Waterbury, VT.
- (WJK) Warren J. Kiel collection, Whitefield, NH.

Key to abbreviations and terminology

auth.,	= of authors	WM.	= Miller (1987)
B.	= Bolte (1990)	M.	= moth
C.	= Covell (1984)	McG. I	= McGuffin (1967)
cases	= casebearer cases only	Mn. 13.1	= Munroe (1972-3)
cat.	= caterpillar	Mn. 13.2a	= Munroe (1976a)
Col.	= collected by	Mn. 13.2b	= Munroe (1976b)
CW	= cutworm	N. 15.2	= Neunzig (1986)
Det.	= Determined by	N.	= Neunzig (1988)
E.&D.	= Eichlin and Duckworth (1988)	N. 15.3	= Neunzig (1990)
ex gen.	= examined genitalia	nsp.	= new species
*	= ESA approved common name	?nsp.	= possibly a new species
F. 18.1	= Ferguson (1985)	O.&M.	= Opler and Malikul (1992)
F. 22.2	= Ferguson (1978)	Pl.	= plate
Fig.	= figure	R	= Rings et al (1992)
fr.	= from	Rec.	= recorded by
H.	= Holland (1968)	RH. 6.1	= Hodges (1978)
Host	= larval food source	RH. 6.2	= Hodges (1974)
?	= identification uncertain	RH. 7.1	= Hodges (1986)
Imm.	= immature (larval stage)	R.&L.	= Rockburne and Lafontaine (1976)
JFL.	= Landry (1991)	S.	= Sargent (1976)
L.	= Lafontaine (1987)	shelters	= housing made by larvae
L.&P.	= Lafontaine and Poole (1991)	Sp.	= distinct species, designation not determined, does not represent named species in document
LM	= leafminers	Ver.	= identification verified by
mine	= leafminer mine only	W.&S.	= Wilkinson and Scoble (1979)

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The following list is a provisional record of the moths and butterflies of Vermont (Lepidoptera in part). Taxonomic format for supra-generic taxa follows that of Hodges et al. (1983) except for the butterflies which follows Opler and Malikul (1992). Known changes in species and generic nomenclature since publication of the Hodges checklist are incorporated. Synonymized names may follow in brackets. Genera are listed in alphabetical order within each family or subfamily. Resolution to subspecies is determined according to the choice of the determinant. Information on each species is presented in the following sequence:

Genus; Hodges number; **Species;** author; publication date; ERL collection number, collection code, or field identification; stage if not adult; determined and verified by; year of determination; common name(s); list of illustrations.

CATALOGUE OF SPECIES

Suborder ZEUGLOPTERA

Superfamily MICROPTERIGIOIDEA

Family MICROPTERIGIDAE (micropterigid moths)

Genus *Epimartyria* Walsingham, 1898

1 *auricrinella* Wlsm., 1898. (629) Det. J. R. Grehan, 1991. C. Pl.61(26)

Suborder DACNONYPHA

Superfamily ERIOCRANIOIDEA

Family ERIOCRANIIDAE (ericroraniid moths)

Genus *Dyseriocrania* Spuler, 1910

3 *griseocapitella* (Wlsm., 1898). (1167) Det. J. R. Grehan, 1993. C. Pl.61(25)

Genus *Eriocrania* Zeller, 1851

5 *semipurpurella* (Steph., 1834). (1181) Det. M. Sabourin, 1993.

Suborder EXOPORIA

Superfamily HEPIALIOIDEA

Family HEPIALIDAE (ghost moths or swifts, hépiales, f., Fr.)

Genus *Korscheltellus* Börner, 1925

31 *gracilis* (Grt., 1864). (383) Det. J. G. Leonard, 1990. (conifer swift moth, graceful ghost moth, hépiale gracieuse, f., Fr.)

Genus *Sthenopis* Packard, 1864

18 *argenteomaculatus* (Harr., 1842). (178) Det. J. R. Grehan, 1989. (silverspotted ghost moth, alder rootborer, hépiale d'argent, f., Fr.) C. Pl.7(10), H. Pl.41(14)

22 *auratus* Grt., 1878. (382) Det. J. R. Grehan, 1990. (hépiale dorée, f., Fr.)

21 *thule* Stkr., 1875. (JDH) Det. B. Landry, 1992. (hépiale du saule, f., Fr.)

Suborder MONOTRYZIA

Superfamily NEPTICULOIDEA

Family NEPTICULIDAE (nepticulid moths)

Genus *Ectoedemia* Busck, 1907

39a *argyropeza downesi* Wilkinson and Scoble, 1979. (DLW) Det. D. L. Wagner, 1990. W.&S. I.6(1,2)

52 *?populella* Bsk., 1907. (1185) Det. M. Sabourin, 1993. (poplar petiole gall moth, galle côtelée du

- pétiole du tremble, f., Fr.)
46 ?*virgulæ* (Braun, 1927). (DLW) Det. D. L. Wagner, 1990. C. Pl. 64(21)
- Genus *Glaucolepis* Braun, 1917
59 *saccharella* (Braun, 1912). (Field) Mine. Det. D. L. Wagner, 1990. W.&S. Pl. 7(4), 10(9)

- Genus *Obrussa* Braun, 1915
37 *ochrefasciella* (Cham., 1873). (40) Det. D. L. Wagner, 1990. (hard maple budminer*)
38 *sericopeza* (Zell., 1839). (DLW) Det. D. L. Wagner, 1990.

- Genus *Stigmella* Schrank, 1802 (*Nepticula* Heyden, 1843)
92 ?*corylifoliella* (Clem., 1861). (DLW) Det. D. L. Wagner, 1990. W.&S. Pl. 4(1,2)
64 *pomivorella* (Pack., 1870). (DLW) Det. D. L. Wagner, 1990. (serpentine apple leafminer) W.&S. Pl. 8(6)
79 *slingerlandella* (Klt., 1908). (DLW) Det. D. L. Wagner, 1990. (Slingerland's plum leafminer) W.&S. Pl. 1(2), 8(1)
.. sp. Host: *Betula papyrifera*. (DLW) Det. D. L. Wagner, 1990.
.. sp. Host: *Quercus rubra*. (DLW) Det. D. L. Wagner, 1990.

Family TISCHLERIIDAE (trumpet leafminers) C. Pl. 63(13)

- Genus *Tischeria* Zeller, 1839
149 *aenea* F. & B. 1873. (DLW) Det. D. L. Wagner, 1990. (bramble leafminer)
148 *agrimoniella* Braun, 1972. (DLW) Det. D. L. Wagner, 1990.
129 *badiella* Cham., 1875. (DLW) Det. D. L. Wagner, 1990. (white oak leafminer)
140 *castaneacella* Cham., 1875. (DLW) Det. D. L. Wagner, 1990. (chestnut blotchminer)
126 *citrinipennella* Clem., 1859. (1000) Det. D. L. Wagner, 1992.
146 *crataegifoliae* Braun, 1972. (DLW) Det. D. L. Wagner, 1990.
145 *malifoliella* Clem., 1860. (DLW) Det. D. L. Wagner, 1990. (apple leaf trumpetminer*, mineuse du pommier, f., Fr.)
156 *solidagonifoliella* Clem., 1859. (CIP) Det. D. L. Wagner.

Superfamily INCURVARIODEA

Family INCURVARIIDAE (yucca and fairy moths)

Subfamily INCURVARIINAE

- Genus *Paraclemensia* Busck, 1904
181 *acerifoliella* (Fitch, 1854). (83) Det. J. R. Grehan, 1990. (maple leafcutter*, maple casebearer, coupe-feuille de l'érable, m., Fr.) C. Pl. 63(17)

Subfamily ADELINAE

- Genus *Adela* Latreille, 1796
229 *purpurea* Wik., 1863. (1038) Det. M. Sabourin, 1992. C. Pl. 62(8)
228 *ridingsella* Clem., 1864. (1205) Det. J. R. Grehan, 1993

Family HELIOZELIDAE (shield bearers)

- Genus *Antispila* Hübner, 1825
240 *ampelopsifoliella* Cham., 1874. (DLW) Det. D. L. Wagner, 1990.
232 ?*cornifoliella* Clem., 1860. (DLW) Det. D. L. Wagner, 1990.
234 *nysaefoliella* Clem., 1860. (Field) Mine. Det. D. L. Wagner, 1990. (tupelo leafminer) C. Pl. 63(18)
237 *viticordifoliella* Clem., 1860. (DLW) Det. D. L. Wagner, 1990.
2.. n.sp. Host: *Comptonia peregrina*. (DLW) Det. D. L. Wagner, 1990.

- Genus *Coptodisca* Walsingham, 1895 (case bearers)
256 *kalmiella* Dietz, 1921. (1329) Det. J. D. Lafontaine, 1993.
247 ?*lucifluella* (Clem., 1860). (DLW) Det. D. L. Wagner, 1990.
251 *negligens* Braun, 1920. (Field) Mine. Det. D. L. Wagner, 1990.

- Genus *Heliozela* Herrich-Schäffer, 1853
230 *aesella* Cham., 1877. (DLW) Det. D. L. Wagner, 1990.

Suborder DITRYSIA

Superfamily TINEOIDEA

Family TINEIDAE (clothes, carpet, grain moths and others; teignes, f., Fr.)

- Genus *Acrolophus* Poey, 1832 (Burrowing webworms)
367 *morus* (Grt., 1881). (174) Det. D. R. Davis, 1991. C. Pl. 61(24)

- Genus *Amydria* Clemens, 1859
334 *effrentella* Clem., 1859. (632) Det. D. R. Davis, 1993.

- Genus *Choropleca* Durrant, 1914
307 *vesaliella* (Cham., 1873). (1345) Det. D. R. Davis, 1993.

- Genus *Episcardia* Ragonot, 1895
325 *insectella* (F., 1794). (1347) Det. D. R. Davis, 1993.

- Genus *Homosetia* Clemens, 1863
2.. sp. (655) Det. D. R. Davis, 1993.

- Genus *Isocorypha* Dietz, 1905
299 *mediostriatella* (Clem., 1865). (1186) Det. M. Sabourin, 1992.

- Genus *Leucomele* Dietz, 1905
282 *miriamella* Dietz, 1905. (WJK) Det. D. L. Wagner 1990.

- Genus *Monopis* Hübner, 1825
416 *dorsistrigella* (Clem., 1859). (665) Det. D. R. Davis, 1993. C. Pl. 64(19)
417 *marginistrigella* (Cham., 1873). (1107) Det. D. R. Davis, 1993.
421 *spilotella* Tengström, 1848. (993) Det. J. -F. Landry, 1991, ver. D. R. Davis, 1993.

- Genus *Nemapogon* Schrank, 1802
266 *granella* (L., 1758). (1180) Det. M. Sabourin, 1993. (european grain or wolf moth, teigne européenne des grains, f., Fr.) C. Pl. 63(10)
269 *multistriatella* (Dietz, 1905). (1344) Det. D. R. Davis, 1993.
2.. sp. (1108) Det. D. R. Davis, 1993.

- Genus *Niditinea* Petersen, 1957
411 *fuscella* (L., 1758). (1109) Det. D. R. Davis, 1993.

- Genus *Scardia* Treitschke, 1830
308 ?*approximatella* Dietz, 1905. (1103) Det. J. -F. Landry, 1992.

- Genus *Tinea* Linnaeus, 1758
394 *carnariella* Clem., 1859. (1105) Det. J. -F. Landry, 1992.
405 *pellionella* L., 1758. (GRN) Det. G. R. Nielsen, 1992 (casemaking clothes moth*, teigne porte-case, f., Fr.) C. Pl. 63(14), H. Fig. 253

Genus *Tineola* Herrich-Schäffer, 1853

- 426 *bisselliella* (Hummel, 1823). (316) Det. G. R. Nielsen, 1991. (webbing clothes moth*, teigne des vêtements, f., Fr.) C. Pl.63(15), H. Fig.252

Genus *Xylesthia* Clemens, 1859

- 317 ?*pruniramiella* Clem., 1859. (1179) Det. M. Sabourin, 1993.

Family **PSYCHIDAE** (bagworm moths) C. Pl.2(3)Subfamily **TALEPORIINAE**Genus *Solenobia* Duponchel, 1842

- 435 *walshella* Clem., 1862. (DLW) Larval cases. Det. D. L. Wagner 1990. (Walsh's microbagworm, porte-case des lichens, m., Fr.)

Subfamily **PSYCHINAE**Genus *Astala* Davis, 1964

- 443 *confederata* (G. & R., 1868). (Field) Larval cases. Det. G. R. Nielsen, 1990 (confederate microbagworm) H. Pl.41(8)

Genus *Psyche* Schrank, 1801

- 437 *casta* (Pallas, 1767). (168) Det. D. L. Wagner, 1990. (casta microbagworm)

Family **LYONETIIDAE** (lyonetiid moths)Genus *Bucculatrix* Zeller, 1839 (ribbed cocoon makers)

- 572 *ainsiella* Murt., 1905. (277) Det. J. R. Grehan, 1990. (oak skeletonizer*, squeletteuse du chêne, f., Fr.) C.Pl.63(12)
- 560 *canadensisella* Cham., 1875. (991) Det. D. L. Wagner, 1991. (birch skeletonizer*, squeletteuse du bouleau, f., Fr.) C. Pl.63(16), H. Fig.250
- 499 *cuneigera* Meyr., 1919. (1098) Det J. -F. Landry, 1992, ver. D. R. Davis, 1993.
- 577 *pomifoliella* Clem., 1860. (Field) Cocoon. Det. G. R. Nielsen.-(apple buccalatrix, ribbed-cocoon maker) H. Fig.251
- 485 *solidaginiella* Braun, 1963. (1097) Det. J. R. Grehan, 1992.
- ... sp. Host: *Aster cordifolia*. (DLW) Det. D. L. Wagner, 1990.
- ... sp. Host: "composite". (DLW) Det. D. L. Wagner, 1990.
- ... sp. (1110) Det. D. R. Davis, 1993.

Genus *Lyonetia* Hübner, 1825

- 470 *latistrigella* Wism., 1882. (DLW) Det. D. L. Wagner, 1990.
- 472 *speculella* Clem., 1862. (DLW) Det. D. L. Wagner, 1990.

Genus *Philonome* Chambers, 1874

- 462 *clemensella* Cham., 1874. (CTP) Det. D. L. Wagner.

Family **GRACILLARIIDAE** (leaf blotch miner moths)Subfamily **GRACILLARIINAE**Genus *Acrocercops* Wallengren, 1881

- 692 *astericola* (F. & B., 1873). (50) Det. D. L. Wagner, 1990. (aster tentiform blotchminer)
- 697 *strigosus* Braun, 1914. (DLW) Det. D. L. Wagner, 1990.

Genus *Callisto* Stephens, 1834

- 664 *denticulella* (Thunb., 1794). (DLW) D. L. Wagner, 1990.

Genus *Caloptilia* Hübner, 1825

- 587 *alnivorella* (Cham., 1875). (995) Det. D. R. Davis, 1991. (alder leafminer, mineuse de l'aulne, f., Fr.)
- 589 *anthobaphes* (Meyr., 1921). (DLW) Det. D. L. Wagner, 1990.
- 595 *bimaculatella* (Ely, 1915). (84) Det. D. L. Wagner, 1990. (soft maple leafcone cat.)
- 597 *burgessiella* (Zell., 1873). (125) Det. D. L. Wagner, 1990. (dogwood leafcone cat.)
- 601 *coroniella* (Clem., 1864). (532) Det. D. L. Wagner, 1990.
- 604 *flavella* (Ely, 1915). (DLW) Det. D. L. Wagner, 1990. (wax myrtle leafminer)
- 606 *fraxinella* (Ely, 1915). (1343) Det. D. R. Davis, 1993. (privet-ash leafminer, mineuse du troène, f., Fr.)
- 609 *invariabilis* (Braun, 1927). (309) Det. D. L. Wagner, 1990. (cherry leafcone cat., gracilaire du cerisier, m., Fr.)
- 615 *negundella* (Cham., 1876). (DLW) Shelters. Det. D. L. Wagner, 1990. (boxelder leafroller, enrouleuse de l'érable négondo, f., Fr.)
- 618 *ostryaeella* (Cham., 1878). (994) Det. D. R. Davis, 1991. (ironwood leafcone cat.)
- 620 *packardella* (Cham., 1872). (DLW) Det. D. L. Wagner, 1990.
- 626 ?*pulchella* (Cham., 1875). (150) Det. D. L. Wagner, 1990.
- 639 *purpuriella* (Cham., 1872). (CTP) Det. D. L. Wagner.
- 630 *rhoifoliella* (Cham., 1876). (986) Det. D. L. Wagner, 1991. (poison ivy tentiform LM)
- 637 *serotinella* (Ely, 1910). (194) Det. D. L. Wagner, 1990. (black cherry leafcone cat.)
- 639 *stigmatella* (F., 1781). (61) Det. D. L. Wagner, 1990. (willow leafcone caterpillar)
- 641 *superbifrontella* (Clem., 1860). (1294) Det. J. -F. Landry, 1993. C. Pl.64(24)
- ... sp. Host: *Acer rubrum*. (DLW) Det. D. L. Wagner, 1990.

Genus *Gracillaria* Haworth, 1828

- 645 *syringella* (F., 1794). (865) Det. M. Sabourin, 1991. (lilac leafminer*, fausse-teigne du lilas, f., Fr.)

Genus *Leucanthiza* Clemens, 1859

- 700 *amphicarpeaefoliella* Clem., 1859. (DLW) Det. D. L. Wagner, 1990.
- 701 *dircella* Braun, 1914. (DLW) Det. D. L. Wagner, 1990.

Genus *Leucospilapteryx* Spuler, 1910

- 698 *venustella* (Clem., 1860). (Field) Imm. Det. D. L. Wagner, 1990.

Genus *Marmara* Clemens, 1863

- 706 *corticola* Fitzgerald, 1973. (Field) Imm. Det. D. L. Wagner, 1990.
- 708 *fasciella* (Cham., 1875). (Field) Det. G. R. Nielsen, 1991. (eastern white pine cambial miner, white-pine bark miner)
- 709 *fraxinicola* Braun, 1922. (Field) Det. D. L. Wagner, 1990.
- 716 *salictella* Clem., 1863. (DLW) Det. D. L. Wagner, 1990.
- 7... n. sp. Host: *Ulmus*. (Field) Mines. Det. D. L. Wagner, 1990.

Genus *Micrurapteryx* Spuler, 1910

- 647 ?*salicifoliella* (Cham., 1872). (1184) Det. M. Sabourin, 1993. C. Pl.64(7)

Genus *Paractopa* Clemens, 1860

- 648 ?*albicostella* Braun, 1925. (DLW) Det. D. L. Wagner, 1990.
- 656 *plantaginisella* (Cham., 1872). (DLW) Det. D. L. Wagner, 1990.
- 657 *robinella* Clem., 1863. (DLW) Det. D. L. Wagner, 1990. (robinia blisterminer)

Genus *Parornix* Spuler, 1910

- 669 *conspicua* (Dietz, 1907). (DLW) Det. D. L. Wagner, 1990. (black birch leafminer)
- 670 ?*crataegifoliella* (Clem., 1860). (DLW) Det. D. L. Wagner, 1990. (thornapple leafminer)
- 673 ?*geminatella* (Pack., 1869). (1149) Det. D. R. Davis, 1993. (unspotted leafminer, quince tentiform leafminer)
- 676 *kalmiella* (Dietz, 1907). (DLW) Det. D. L. Wagner, 1990. (laurel leafminer)

- 677 ?*melanotella* (Dietz, 1907). (DLW) Det. D. L. Wagner, 1990. (thornapple leafminer)
 678 *obliterella* (Dietz, 1907). (DLW) Det. D. L. Wagner, 1990. (river birch leafminer)
 679 *peregrinaella* (Darlington, 1949). (DLW) Det. D. L. Wagner, 1990.
 680 *preciosella* (Dietz, 1907). (DLW) Det. D. L. Wagner, 1990. (highbush blueberry LM)
 681 ?*quadripunctella* (Clem., 1861). (DLW) Det. D. L. Wagner, 1990. (chokecherry LM)
 6.. sp. Host: *Amelanchier*. (DLW) Det. D. L. Wagner, 1990.

Subfamily LITHOCOLLETINAE

Genus *Cameraria* Chapman, 1902

- 803 *aceriella* (Clem., 1859). (DLW) Det. D. L. Wagner, 1990. (maple leafminer, maple leafblotch miner, mineuse de l'érable, f., Fr.)
 811 *caryaefoliella* (Clem., 1859). (DLW) Det. D. L. Wagner, 1990. (hickory blotchminer)
 815 *cincinnatiella* (Cham., 1871). (DLW) Det. D. L. Wagner, 1990. (gregarious oak LM*)
 817 *corylisella* (Cham., 1871). (DLW) Det. D. L. Wagner, 1990. (hazel blotchminer)
 822 *guttifinitella* (Clem., 1859). (DLW) Det. D. L. Wagner, 1990. (poison ivy leafminer)
 823 *hamadryadella* (Clem., 1859). (DLW) Det. D. L. Wagner, 1990. (solitary oak leafminer) C. Pl.64(10)
 824 *hamameliella* (Bsk., 1903). (DLW) Det. D. L. Wagner, 1990. (witchhazel leafminer, witchhazel blotchminer)
 825 *lentella* (Braun, 1908). (DLW) Det. D. L. Wagner, 1990. (birch leaf-folding blotchminer)
 828 *macrocarpella* (F. & B., 1878). (DLW) Det. D. L. Wagner, 1990.
 831 *obstrictella* (Clem., 1859). (DLW) Det. D. L. Wagner, 1990. C. Pl.63(11)
 832 *ostryarella* (Cham., 1871). (DLW) Det. D. L. Wagner, 1990. (hophornbeam blotchminer, mineuse de l'ostryer, f., Fr.)
 835 *quercivorella* (Cham., 1879). (DLW) Det. D. L. Wagner, 1990.
 836 *saccharella* (Braun, 1908). (DLW) Det. D. L. Wagner, 1990. (sugar maple blotchminer)

Genus *Chrysaster* Kumata, 1961

- 842 *ostensackenella* (Fitch, 1859). (DLW) Det. D. L. Wagner, 1990. (yellow locust blotchminer)

Genus *Phyllonorycter* Hübner, 1822 (*Lithocolletis* Hübner, 1825)

- 727 *albanotella* (Cham., 1875). (DLW) Det. D. L. Wagner, 1990. (marginal tentiform oak leafminer)
 7.. *apparella* (H.-S., 18..). (DLW) Det. D. R. Davis, 1990.
 733 *argentifimbriella* (Clem., 1859). (DLW) Det. D. L. Wagner, 1990.
 734 *argentinotella* (Clem., 1859). (DLW) Det. D. L. Wagner, 1992. (golden elm leafminer)
 737 *auronitens* (F. & B., 1873). (DLW) Det. D. L. Wagner, 1990. (alder leafminer)
 738 *basistrigella* (Clem., 1859). (DLW) Det. D. L. Wagner, 1990.
 740 *blancardella* (F., 1781). (1875) Det. J. R. Grehan, 1991, ex. gen. (spotted tentiform leafminer*)
 745 *comptoniella* (Darlington, 1949). (DLW) Det. D. L. Wagner, 1990.
 746 *crataegella* (Clem., 1859). (DLW) Det. D. L. Wagner, 1990. (apple blotch leafminer*)
 750 *diversella* (Braun, 1916). (DLW) Det. D. L. Wagner, 1990. (huckleberry leafminer)
 750.1 ?*emberizaepenella* (Bouché, 1834). (1296) Det. J. R. Grehan, 1993.
 752 *fitchella* (Clem., 1860). (DLW) Det. D. L. Wagner, 1990. (oak tentiform leafminer)
 755 *hagenii* (F. & B., 1873). (DLW) Det. D. L. Wagner, 1990.
 759 *intermixtus* (Braun, 1930). (DLW) Det. D. L. Wagner, 1990.
 764 *lucetiella* (Clem., 1859). (1451) Det. J. R. Grehan, 1994. (basswood blotchminer, mineuse-tache du tilleul, f., Fr.)
 765 *lucidicostella* (Clem., 1859). (1451) Det. D. L. Wagner, 1990. (lesser maple leaf blotchminer)
 770 *martiella* (Braun, 1908). (DLW) Det. D. L. Wagner, 1990.
 773 *morrisella* (Fitch, 1859). (DLW) Det. D. L. Wagner, 1990.
 781 ?*ostryaefoliella* (Clem., 1859). (DLW) Det. D. L. Wagner, 1990. (wrinkled hophornbeam blotchminer)
 784 *propinquinella* (Braun, 1908). (DLW) Det. D. L. Wagner, 1990. (blackcherry leafminer, cherry blotch miner, mineuse du cerisier tardif, f., Fr.)
 786 *restrictella* (Braun, 1939). (DLW) Det. D. L. Wagner, 1990. (beech leafminer, mineuse du hêtre, f., Fr.)
 790 *robiniella* (Clem., 1859). (DLW) Det. D. L. Wagner, 1990. (digitate locust leafminer)
 794 *scudderella* (F. & B., 1873). (DLW) Det. D. R. Davis, 1990.

- 797 *tiliacella* (Cham., 1871). (DLW) Det. D. L. Wagner, 1990.
 799 *trinotella* (Braun, 1908). (DLW) Det. D. L. Wagner, 1990. (red maple blotchminer)
 7.. ?n. sp. near *crataegella* Host: *Prunus pennsylvanica*. (DLW) Det. D. L. Wagner, 90.
 7.. sp. near *crataegella* Host: *Amelanchier* sp. (DLW) Det. D. L. Wagner, 1990.

Genus *Porphyrosela* Braun, 1908

- 843 *desmodiella* (Clem., 1859). (DLW) Det. D. L. Wagner, 1990. (tentiform bean LM)

Subfamily PHYLLOCNISTINAE

Genus *Phyllocnistis* Zeller, 1848

- 852 *populiella* Cham., 1875. (DLW) Det. D. L. Wagner, 1990. (aspen leafminer, poplar serpentine leafminer, mineuse des feuilles du tremble, f., Fr.)
 853 *vitegenella* Clem., 1859. (DLW) Det. D. L. Wagner, 1990.
 854 *vitifoliella* Cham., 1871. (DLW) Det. D. L. Wagner, 1990.

Superfamily GELECHIOIDEA

Family OECOPHORIDAE (oecophorid moths)

Subfamily DEPRESSARIINAE

Genus *Agonopterix* Hübner, 1825

- 889 *argillacea* (Wlsm., 1881). (347) Det. J. R. Grehan, 1991. RH. 6.2 Pl.2(8-10,16,28)
 864 *atrodorsella* (Clem., 1863). (349) Det. J. R. Grehan, 1991. (beggartick leaf-fol-der) RH. 6.2 Pl.1(20,21)
 878 *canadensis* (Bsk., 1902). (24) Det. M. Sabourin, 1992. RH. 6.2 Pl.1(47),2(1-3)
 859 *curvilineella* (Beutenmüller, 1889). (962) Det. J. -F. Landry, 1991. RH. 6.2 Pl.1(11,12)
 857 *lythrella* (Wlsm., 1889). (1287) Det. J. -F. Landry, 1993. RH. 6.2 Pl.1(6-8)
 867 *pulvipennella* (Clem., 1864). (29) Det. D. L. Wagner, 1990. (goldenrod leaf-fol-der) RH. 6.2 Pl.1(26-29)
 882 *robiniella* (Pack., 1869). (62) Det. D. L. Wagner, 1990. (locust leaf-fol-der) C. Pl.61(20), RH. 6.1 Pl.1(22), RH. 6.2 Pl.2(29-33)
 884 *thelmae* Clarke, 1941. (1027) Det. M. Sabourin, 1992. RH. 6.2 Pl.2(36,37)
 869 *walsinghamella* (Bsk., 1902). (959) Det. M. Sabourin, 1992. (myrica leaf-fol-der) RH. 6.2 Pl.1(30)

Genus *Bibarrambla* Clarke, 1941

- 911 *allenella* (Wlsm., 1882). (41) Det. D. L. Wagner, 1990. (birch-and-alder leaf-tier) RH. 6.2 Pl.3(28-30), Fig.7

Genus *Depressaria* Haworth, 1811

- 922 *pastinacella* (Dup., 1838). (693) Det. M. Sabourin, 1991. (parsnip webworm*, tisseuse du panias, f., Fr.) RH. 6.2 Pl.4(12,13), H. Fig.247 as *D. heracliana*

Genus *Depressariodes* Turati, 1925

- 908 *ciniflonella* (Lienig & Zell., 1846). (1189) Det. J. -F. Landry, 1993. RH. 6.2 Pl.3(18-27) as *Martyrhilda ciniflonella*

Genus *Machimia* Clemens, 1860

- 951 *tentoriferella* Clem., 1860. (78) Det. D. L. Wagner, 1990. (gold-striped leaf-tier, deciduous leaf-fol-der, oécophore à tente, m., Fr.) C. Pl.61(19), RH. 6.2 Pl.5(26-28), Fig.16

Genus *Nites* Hodges, 1974 (leaf-tiers)

- 945 *maculatella* (Bsk., 1908). (94) Det. D. L. Wagner, 1990. (oak leaf-tier) RH. 6.2 Pl.5(22,24); Fig.12(e)
 946 ?*ostryella* (McD., 1943). (DLW) Det. D. L. Wagner, 1990. (hophornbeam leaf-tier), RH. 6.2 Pl.5(18,23), Fig.12(f)

Genus *Psilocorsis* Clemens, 1860

- 955 *quercicella* Clem., 1860. (DLW) Det. D. L. Wagner, 1990. (oak leaftier, oécophore du chêne, f., Fr.) C. Pl.64(23), RH. 6.2 Pl.5(34-37)
 957 ?*reflexella* Clem., 1860. (250) Det. D. L. Wagner, 1990. (flat leaftier, oécophore des feuillus, m., Fr.) C. Pl.61(21), RH. 6.2 Pl.5(40-43), Fig.18

Genus *Semioscopis* Hübner, 1825

- 916 *aurorella* Dyar, 1902. (364) Det. J. R. Grehan, 1991. RH. 6.2 Pl.3(44-46)
 914 *inornata* Wlsm., 1882. (18) Det. D. L. Wagner, 1989. (poplar micromoth) RH. 6.1 Pl.1(21), RH. 6.2 Pl.3(34-37)
 913 *merricella* Dyar, 1902. (346) Det. M. Sabourin, 1992. RH. 6.2 Pl.3(33)
 912 *packardella* (Clem., 1863). (46) Det. D. L. Wagner, 1990. RH. 6.2 Pl.3(31,32), H. Pl.48(38) as *S. merricella*

Subfamily ETHMIINAE

Genus *Ethmia* Hübner, 1819

- 986 *bipunctella* (F., 1775). (685) Det. M. Sabourin, 1991.
 999 *longimaculella* (Cham., 1872). (967) Det. G. R. Nielsen, 1991.

Subfamily STENOMATINAE

Genus *Antaeotricha* Zeller, 1854

- 1015 *osseella* (Wlsm., 1889). (1465) Det. J.-F. Landry, 1994.
 1011 *schlaegeri* (Zell., 1854). (692) Det. B. Landry, 1991. (sténome neigeux, m., Fr.) C. Pl.62(20)C. Pl.62(20), RH. 6.1 Pl.1(9), H. Pl.48(41) as *Stenoma schlaegeri*

Subfamily OECOPHORINAE

Genus *Brymbia* Hodges, 1974

- 1055 *quadrimaculella* (Cham., 1875). (DLW) Det. D. L. Wagner, 1990. RH. 6.2 Pl.6(14,15)

Genus *Callima* Clemens, 1860

- 1046 *argenticinctella* Clem., 1860. (675) Det. J. R. Grehan, 1991. C. Pl.61(16), RH. 6.2 Pl.7(10,11)

Genus *Decantha* Busck, 1908

- 1042 *boreasella* (Cham., 1873). (1111) Det. J. -F. Landry, 1992. RH. 6.1 Pl.2(6), RH. 6.2 Pl.7(2-4)

Genus *Eido* Chambers, 1873

- 1068 *trimaculella* (Fitch, 1856). (348) Det. J. R. Grehan, 1991. RH. 6.2 Pl.6(33), Fig.30(c)

Genus *Mathildana* Clarke, 1941

- 1060 *flipria* Hodges, 1974. (965) Det. M. Sabourin, 1992. RH. 6.2 Pl.6(23), Fig.27(c)
 1059 *newmanella* (Clem., 1864). (16) Det. D. L. Wagner, 1989. C. Pl.61(17), RH. 6.2 Pl.6(22)

Genus *Polix* Hodges, 1974

- 1058 *coloradella* (Wlsm., 1888). (1088) Det. J. R. Grehan, 1992. RH. 6.1 Pl.1(25), RH. 6.2 Pl.6(19-21)

Family ELACHISTIDAE (elachistid moths) C. Pl.64(9)

Subfamily ELACHISTINAE

Genus *Elachista* Treitschke, 1833

- 1098 *hiberna* Braun, 1948. (DLW) Det. D. L. Wagner, 1990.

Genus *Perittia* Stainton 1854

- 1... n. sp. Host: *Lonicera canadensis*. (DLW) Det. D. L. Wagner, 1990.

Family BLASTOBASIDAE (blastobasid moths)

Subfamily SYMMOCINAE

Genus *Gerdana* Busck, 1908

- 1144 *caritella* Bsk., 1908. (1293) Det. J. -F. Landry, 1993. RH. 6.1 Pl.1(3)

Genus *Glyphidocera* Walsingham, 1892

- 1142 *septentrionella* Bsk., 1904. (1351) Det. R. W. Hodges, 1993.
 11.. sp. (1327) Det. R. W. Hodges, 1993.

Genus *Oegoconia* Stainton, 1854

- 1134 *quadripuncta* (Haw., 1828). (1079) Det. J. -F. Landry, 1992. RH. 6.1 Pl.1(36)

Subfamily BLASTOBASINAE

Genus *Asaphocrita* Meyrick, 1931

- 1170.- n.sp. (787) Det. D. Adamski, 1991.

Genus *Holcocerina* McDunnough, 1961

- 1221 *immaculella* (McD., 1930). (1226) Det. M. Sabourin, 1993 (conifer micromoth)

Genus *Holocera* Clemens, 1863

- 1175 *chalcfrontella* Clem., 1863. (MS) Det. D. Adamski, 1992. (sumac micromoth)

Genus *Hypatopa* Walsingham, 1907

- 1156.- sp. (1112) Det. D. Adamski, 1993.

Genus *Valentinia* Walsingham, 1907

- 1162 *glandulella* (Riley, 1871). (786) Det. D. Adamski, 1991. (acorn moth, blastobasie des glands, f., Fr.) C. Pl.62(16), RH. 6.1 Pl.1(4), H. Fig.248 as *H. glandulella*

Family COLEOPHORIDAE (casebearer moths, porte-cases, m., Fr.)

Subfamily COLEOPHORINAE

Genus *Coleophora* Hübner, 1822 (casebearers)

- 1258 *albovanescens* Heinr., 1926. (1299) Det. J. -F. Landry, 1993.
 1312 *asterosella* McD., 1944. (CNC) Det. J. -F. Landry, 1993.
 1372 *coenosipennella* Clem., 1860. (CNC) Det. J. -F. Landry, 1993.
 1300 *comptoniella* (McD., 1926). (DLW) Det. D. L. Wagner, 1990.
 1277 *cornivorella* McD., 1945. (DLW) Det. D. L. Wagner, 1990.
 1365 *cratipennella* Clem., 1864. (DLW) Det. D. L. Wagner, 1990.
 1388.1 *deauratella* Lienig & Zell., 1846. (1374) Det. J. -F. Landry, 1991.
 1344 *detractella* McD., 1961. (CNC) Det. J.-F. Landry, 1993.
 1276 *gaylussaciella* Heinr., 1915. (CNC) Det. J. -F. Landry, 1993.
 1311 *laricella* (Hbn., 1814-1817). (183) Det. J. R. Grehan, 1991. (larch casebearer*, porte-case du mélèze, m., Fr.) C. Pl.64(14)
 1301 *ulmifoliella* McD., 1946. (DLW) Det. D. L. Wagner, 1990. (elm casebearer*, porte-case de l'orme, m., Fr.)
 1349 *lineapulvella* Cham., 1874. (1300) Det. J. -F. Landry, 1993.
 1254 *malivorella* Riley, 1878. (DLW) Det. D. L. Wagner, 1990. (pistol casebearer*, porte-case virgule du pommier, m., Fr.)
 1271 *pruniella* Clem., 1861. (1190) Det. J. -F. Landry, 1993. (cherry casebearer*, porte-case du cerisier, m., Fr.)
 1316 *rosacella* Clem., 1864. (CNC, 1357) Det. J. -F. Landry, 1993.
 1308 *serratella* (L., 1761). (Field) Det. G. R. Nielsen, 1991. (birch casebearer*, cigar casebearer*, porte-

- case du bouleau, m., Fr., porte-case fuselé du pommier, m., Fr.)
 1307 *spinella* (Schr., 1802). (DLW) Det. D. L. Wagner, 1990.
 1388 *trifolii* (Curt., 1832). (120) Det. D. L. Wagner, 1990. (sweet clover casebearer)
 1... *sp.* (1113) Det. R. W. Hodges, 1993.
 1... ?n. *sp.* (CNC). Det. J. -F. Landry, 1993; slide JFL 990

Family **MOMPHIDAE** (momphid moths)

Genus **Mompha** Hübner, 1825

- 1430 *brevivittella* (Clem., 1864). (1229) Det. J. -F. Landry, 1993.
 1433 *cephalonthiella* (Cham., 1871). (DLW) Det. D. L. Wagner, 1990.
 1443 *eloisella* (Clem., 1860). (1058) Det. J. R. Grehan, 1992. C. Pl.61(28)
 1455 *stellaella* Bsk., 1906. (974) Det. J. -F. Landry, 1991.

Family **AGONOXENIDAE** (agonoxenid moths)

Subfamily **BLASTODACNINAE**

Genus **Blastodacna** Wocke, 1876

- 1461 *curvilineella* (Cham., 1872). (MS) Det. J. -F. Landry, 1993.
 1461.. *sp.*1 (1337) Det. R. W. Hodges, 1993.
 1461.. *sp.*2 (MS) Det. R. W. Hodges, 1993.

Genus **Glyphipteryx** Curtis, 1827 (**Chrysoclista** Stainton, 1854)

- 1463 *linneella* (Cl., 1759). (167) Det. J. R. Grehan, 1990. (linden bark borer, perceur de l'écorce du tilleul, m., Fr.) C. Pl.63(4), RH. 6.1 Pl.1(34)

Family **COSMOPTERIGIDAE** (cosmopterigid moths)

Subfamily **COSMOPTERIGINAE**

Genus **Cosmopterix** Hübner, 1825

- 1496 *fernaldella* Wism., 1882. (1352) Det. R. W. Hodges, 1993. RH. 6.1 Pl.3(13); Fig.7(b),21(e,f)
 14.. *sp.* (195) Det. D. L. Wagner, 1989.

Genus **Limnaecia** Stainton, 1851

- 1515 *phragmitella* Staint., 1851. (961) Det. M. Sabourin, 1992. (cattail borer, shy cosmet) C. Pl.62(15), RH. 6.1 Pl.1(17),4(5,6);Fig.2(a),9(c),24(c)

Subfamily **CHRYSOPELEIINAE**

Genus **Perimede** Chambers, 1874

- 1623 *erransella* Cham., 1874. (MS) Det. J. -F. Landry, 1992. RH. 6.1 Pl.5(45); Fig.3(h),38(d),51(d)

Genus **Walshia** Clemens, 1864

- 1615 *miscelorella* (Cham., 1875). (1286) Det. J. -F. Landry, 1993. (sweetclover root borer*) C. Pl.62(14), RH. 6.1 Pl.1(63),4(53-59);Fig.37(c),50(c)

Family **SCYTHRIDIDAE**

Genus **Asymmetrura** J.-F. Landry, 1991

- 1662 *impositella* (Zell., 1855). (CNC) Det. J. -F. Landry, 1992. JFL. Fig.27-29,73-75
 1675 *scintillifera* (Braun, 1927). (CNC) Det. J. -F. Landry, 1992. JFL. Fig.30

Genus **Scythris** Hübner, 1825

- 1655 *eboracensis* (Zell., 1855). (USNM) Det. J. -F. Landry, 1991. C. Pl.64(13), JFL. Fig.39
 1663.1 *limbella* (F., 1775). (1099) Det. J. -F. Landry, 1993. JFL. Fig.67,68,281

Family **GELECHIIDAE** (gelechiid moths)

Subfamily **ANOMOLOGINAE**

Genus **Chrysoesthia** Hübner, 1825

- 1718 *lingulacella* (Clem., 1860). (Field) Mines. Det. D. L. Wagner, 1990.
 1719 *sexguttella* (Thunb., 1794). (DLW) Det. D. L. Wagner, 1990.

Genus **Metzneria** Zeller, 1839

- 1685 *lappella* (L., 1758). (964) Det. J. -F. Landry, 1991. C. Pl.62(6), RH. 6.1 Pl.1(37)

Subfamily **GELECHIINAE**

Genus **Aristotelia** Hübner, 1825

- 1738 *fungivorella* (Clem., 1864). (1115) Det. R. W. Hodges, 1993.
 1742 *isopelta* Meyr., 1929. (DLW) Det. D. L. Wagner, 1990.
 1761 *roseosuffusella* (Clem., 1860). (1334) Det. R. W. Hodges, 1993.

Genus **Aroga** Busck, 1914

- 2184 *argutiola* Hodges, 1974. (1333) Det. R. W. Hodges, 1993.
 2198 ?*trialbamaculella* (Cham., 1875). (DLW) Det. D. L. Wagner, 1990.
 2198 *sp.*, *trialbamaculella* complex. (1332) Det. R. W. Hodges, 1993.

Genus **Arogalea** Walsingham, 1910

- 1851 *cristifasciella* (Cham., 1878). (1102) Det. J. -F. Landry, 1992.

Genus **Athrips** Billberg, 1820

- 1852 *mouffetella* (L., 1758). (1150) Det. R. W. Hodges, 1993.

Genus **Caryocolum** Gregor & Povolny, 1954

- 2041.1 *pullatella* (Tengstrom, 1848). (1373) Det. J. -F. Landry, 1992.

Genus **Chionodes** Hübner, 1825

- 2061 *argentipunctella* (Ely, 1910). (1372) Det. R. W. Hodges, 1993.
 2064 *bicostomaculella* (Cham., 1872). (1117) Det. R. W. Hodges, 1993. RH. 6.1 Pl.1(48)
 2069 *continuella* (Zell., 1839). (1118) Det. R. W. Hodges, 1993.
 2072 *discoocellella* (Cham., 1872). (581) Det. J. R. Grehan, 1990.
 2087 *labradoricus* (Mösch., 1864). (1328) Det. R. W. Hodges, 1993.
 2090 *lugubrella* (F., 1794). (580) Det. J. R. Grehan, 1990. RH. 6.1 Pl.1(47)
 2093 *mediofuscella* (Clem., 1863). (531) Det. J. R. Grehan, 1990. C. Pl.62(10)
 2099 *obscurusella* (Cham., 1872). (1119) Det. R. W. Hodges, 1993. (boxelder leafworm, squeletteuse à tente de l'érable, f., Fr.)
 2117 *terminimaculella* (Kft., 1908). (1370) Det. R. W. Hodges, 1993.
 2119 *thoraceochrella* (Cham., 1872). (1120) Det. R. W. Hodges, 1993. (leafroller, squeletteuse zébrée, f., Fr.)
 2094.1 *n. sp.*, name in manuscript (Hodges, 1993). (1121) Det. R. W. Hodges, 1993.
 2.... *n. sp.* #21, name in manuscript (Hodges, 1993). (1338) Det. R. W. Hodges, 1993.

Genus **Coleotechnites** Chambers, 1880

- 1792 *atruplicella* (Dietz, 1900). (1122) Det. R. W. Hodges, 1993. (spruce micromoth, lieuse de l'épinette, f., Fr.) RH. 6.1 Pl.1(42)
 1824 *obliquistrigella* (Cham., 1872). (1335) Det. R. W. Hodges, 1993.

1828 *quercivorella* (Cham., 1872). (1168) Det. M. Sabourin, 1993.

Genus *Evippe* Chambers, 1873

1771 *prunifoliella* Cham., 1873. (1123) Det. R. W. Hodges, 1993.

Genus *Exoteleia* Wallengren, 1881

1839 ?*nepheos* Free., 1967. (GRN) Det. M. Sabourin, 1993. (pine candle moth, mineuse des bourgeons du pin, f., Fr.)

1840 *pinifoliella* (Cham., 1880). (Field) Imm. Det. G. R. Nielsen, 1991. (pine needleminer*, mineuse du pin, f., Fr.)

Genus *Filatima* Busck, 1939

2169 *pseudacaciella* (Cham., 1872). (1124) Det. R. W. Hodges, 1993.

21.. *sp.*1 (147) Det. R. W. Hodges, 1992.

21.. *sp.*(DLW) Det. D. L. Wagner, 1990.

21.. *sp.*2 (1125) Det. R. W. Hodges, 1993.

Genus *Gelechia* Hübner, 1825

1946 *lynceella* Zell., 1873. (695) Det. J. -F. Landry, 1991. RH. 6.1 Pl.1(44)

Genus *Gnorimoschema* Busck, 1900

1985 *gallaeasterella* (Kellcott, 1878). (1096) Det. J. -F. Landry, 1992.

1986 *gallaesolidaginis* (Riley, 1869). (861) Det. J. -F. Landry, 1991, ver. R. W. Hodges, 1993. (goldenrod spindlegall caterpillar) C. Pl.62(11), H. Fig.244

Genus *Neotelphusa* Janse, 1958

186. *sp.*, Foodplant: *Comptonia peregrina*. (1354) Det. R. W. Hodges, 1993.

Genus *Pseudochelaria* Dietz, 1900

1862 *pennsylvanica* Dietz, 1900 (1160) Det. M. Sabourin, 1993.

1864 *walsinghami* Dietz, 1900. (694) Det. M. S. Sabourin, ver. J. -F. Landry, 1991.

Genus *Pseudotelphusa* Janse, 1958

1869 *belangerella* (Cham., 1875). (1346) Det. R. W. Hodges, 1993.

1874 *quercinigracella* (Cham., 1872). (FPRM) Imm. Det. D. M. Weisman, 198-.

Genus *Ptycerata* Ely, 1910

2044 *busckella* Ely, 1910. (1358) Det. R.W. Hodges, 1993.

Genus *Taygete* Chambers, 1873

1842 *attributella* (Wlk., 1864). (1348) Det. R. W. Hodges, 1993.

Genus *Teleiodes* Sattler, 1960

1881.- *sp.* (1126) Det. R. W. Hodges, 1993.

Genus *Telphusa* Chambers, 1872

1857 *latifasciella* (Cham., 1875). (1127) Det. R. W. Hodges, 1993.

1858 *longifasciella* (Clem., 1863). (926) Det. J. R. Grehan & ver. J. -F. Landry, 1992. RH. 6.1 Pl.1(43)

Genus *Xenolechia* Meyrick, 1895

18.. *sp.* (DLW) Det. D. L. Wagner, 1990.

INCERTAE SEDIS

Tribe *Teliadini*

.... *sp.* 1 (1349). Det. R. W. Hodges, 1993.

.... *sp.* 2 (1353). Det. R. W. Hodges, 1993.

Subfamily ANACAMPSINAE

Genus *Anacampsis* Curtis, 1827

2230 *agrimoniella* (Clem., 1860). (1100) Det. J. R. Grehan, 1992. C. Pl.64(12)

2233 *conclusella* (Wlk., 1864). (1350) Det. R. W. Hodges, 1993.

2237 *innocuella* (Zell., 1873). (1330) Det. R. W. Hodges, 1993. (enrouleuse à tête noire, f., Fr.)

2243 *niveopulvella* (Cham., 1875). (1367) Det. R. W. Hodges, 1992. RH. 6.1 Pl.1(52)

2248 *rhoifruetella* (Clem., 1860). (1371) Det. R. W. Hodges, 1993.

22.. *sp.* Host: *Ostrya virginiana*. (DLW) Det. D. L. Wagner, 1990.

22.. *sp.* (1128) Det. R. W. Hodges, 1993.

Subfamily CHELARIINAE

Genus *Sitotroga* Heinemann, 1870

2260 *cerealella* (Olivier, 1789). (Field) Imm. Det. G. R. Nielsen. (angoumois grain moth*, alucite des grains, f., Fr.) C. Pl.62(9)

Subfamily DICHOMERIDINAE

Genus *Dichomeris* Hübner, 1818 (*Trichotaphe* Clemens, 1860)

2291 *bilobella* (Zell., 1873). (862) Det. J. -F. Landry, 1991. RH. 7.1 Pl.2(25,26);G(1)

2274 *bipunctella* (Wism., 1882). (1366) Det. M. Sabourin, 1992. RH. 7.1 Pl.2(5,6);D(1)

2275.1 *copa* Hodges, 1986. (1182) Det. M. Sabourin, 1993. RH. 7.1 Pl.2(28);G(4)

2295 *flavocostella* (Clem., 1860). (520) Det. J. R. Grehan, 1990. RH. 7.1 Pl.1(24); Fig.19

2277 *georgiella* (Wlk., 1866). (60) Det. J. R. Grehan, 1990. RH. 7.1 Pl.1(37-40);C(3)

2297 *inserrata* (Wism., 1882). (1129) Det. R. W. Hodges, 1993. RH. 7.1 Pl.2(35);I(5)

2298 ?*juncidella* (Clem., 1860). (1295) Det. J. R. Grehan, 1993 RH. 7.1 Pl.3(16);N(5)

2281 *ligulella* Hbn., 1818. (863) Det. J. -F. Landry, 1991. (palmerworm*, chenille pèlerine, Fr.) C. Pl.64(6), RH.6.1 Pl.1(55), RH.7.1 Pl.1(1-7);Fig.7,8

2282 *marginella* (F., 1781). (Field) Det. G. R. Nielsen. (juniper webworm*, tisseuse du genévrier, f., Fr.) RH. 6.1 Pl.1(56), RH. 7.1 Pl.1(14);Fig.12

2307 *nonstrigella* (Cham., 1878). (1233) Det. J. -F. Landry, 1993. RH. 7.1 Pl.2(32);I(1)

2289 *ochripalpella* (Zell., 1873). (958) Det., M. Sabourin, 1992, ver. R. W. Hodges, 1993. RH. 7.1 Pl.2(33);Fig.23

2309 *picrocarpa* (Meyr., 1913). (1365) Det. M. Sabourin, 1992. RH. 7.1 Pl.3(23);Fig.27

2283 *punctidiscella* (Clem., 1863). (1359) Det. R. W. Hodges, 1993. RH. 7.1 Pl.1(17-20);Fig.16

2288 *punctipennella* (Clem., 1860). (1297) Det. J. -F. Landry, 1993. RH. 7.1 Pl.4(3-5);Fig.15

2301 ?*serrativittella* (Zell., 1873). (1064) Det. J. R. Grehan, 1992. RH. 7.1 Pl.3(1);J(5)

2304 *stipendaria* (Braun, 1925). (267) Det. J. R. Grehan, 1991. RH. 7.1 Pl.2(23,24);F(5)

2286 *vacciniella* Bsk., 1915. (1234) Det. M. Sabourin, 1993. RH. 7.1 Pl.2(2-4);C(5)

2306 *washingtoniella* (Bsk., 1906). (1147) Det. R. W. Hodges, 1993. RH. 7.1 Pl.3(12);M(5)

Genus *Helcystogramma* Zeller, 1877 (Hodges, 1986)

2267 *fernaldella* (Bsk., 1903). (976) Det. J. -F. Landry, 1991. RH. 6.1 Pl.1(57), RH. 7.1 Pl.3(25-27);O(5)

2269 *melanocarpa* (Meyr., 1929). (1227) Det. J. -F. Landry, 1993. RH. 7.1 Pl.3(34)

Superfamily COPROMORPHOIDEA

Family ALUCITIDAE (many-plumed moths)

Genus *Alucita* Linnaeus, 1758

2113 *hexadactyla* L., 1758. (996) Det. J. D. Hedbor, 1992. (six-plume moth) C. Pl.58(23), H. Fig.238

Family CARPOSINIDAE (fruitworms)

Genus *Bondia* Newman, 18562319 *crenentella* (Wism., 1882). (1169) Det. M. Sabourin, 1993.Genus *Carposina* Herrich-Schäffer, 18552315 ?*fernaldana* Bsk., 1907. (1130) Det. M. Sabourin, 1992. C. Pl.62(4)231. *sp.* (DLW) Det. D. L. Wagner, 1990.

Family EPERMENIIDAE (epermeniid moths)

Subfamily EPERMENIINAE

Genus *Epermenia* Hübner, 18252328 ?*albapunctella* Bsk., 1908. (306) Det. D. L. Wagner, 1990.2329 *cicutaella* Kft., 1903. (1131) Det. R. W. Hodges, 1993. C. Pl.64(2)

Family GLYPHIPTERIGIDAE (sedge moths)

Genus *Glyphipterix* Hübner, 18252341 *haworthana* (Steph., 1834). (1442) Det. J. R. Grehan, 1994.2343 *saurodonta* Meyr., 1913. (MS) Det. M. Sabourin, 1993.2341.1b *sistes viridimontis* Heppner, 1985. (1443) Det. J. R. Grehan, 1994.

Superfamily YPONOMEUTOIDEA

Family PLUTELLIDAE (diamondback moths)

Genus *Plutella* Schrank, 18022363 *porrectella* (L., 1758). (1104) Det. J. -F. Landry, 1992.2366 *xylostella* (L., 1758). (59) Det. D. L. Wagner, 1990. (diamondback moth, fausse-teigne des crucifères, f., Fr.) C. Pl.60(25)Genus *Ypsolopha* Latreille, 17962371 *canariella* (Wism., 1881). (908) Det. J. -F. Landry, 1991.2375 *dentella* (F., 1775). (860) Det. J. -F. Landry, 1991. (European honeysuckle leafroller*, tooth-streak hooked tip moth, enrouleuse du chèvrefeuille, f., Fr.)2380 *fauciferella* (Wism., 1881). (910) Det. J. R. Grehan & ver. J. -F. Landry, 1992. (fruittree leafroller)

Family YPONOMEUTIDAE (ermine moths)

Genus *Atteva* Walker, 18542401 *punctella* (Cram., 1781). (966) Det. J. D. Hedbor, 1991. (Ailanthus webworm moth) C. Pl.61(13), 62(5), H. Pl.48(36) as *A. aurea*, Pl.48(37) as *A. gemmata*Genus *Swammerdamia* Hübner, 18252413 *caesiella* (Hbn., 1796). (1057) Det. J. R. Grehan, 1992, ver. D. R. Davis, 1993. (birch micromoth)Genus *Yponomeuta* Latreille, 17962416.1 *cagnagella* Hbn., 1813. (909) Det. G. R. Nielsen, 1991, ver J. -F. Landry, 1992. (European spindle ermine moth, euonymous cat.)2420 *multipunctella* Clem., 1860. (332) Det. M. Sabourin, 1992, ver. J. F. Landry, 1992. (American ermine moth, euonymus caterpillar) C. Pl.62(2), H. Pl.48(44)

Family ARGYRESTHIIDAE (head-standing moths)

Genus *Argyresthia* Hübner, 18252435 *alternatella* Kft., 1908. (697) Det. M. Sabourin, 1991.2449 *conjugella* Zell., 1839. (1320) Det. J. R. Grehan, 1993. C. Pl.64(3)2457 *goedartella* (L., 1758). (1080) Det. J.-F. Landry, 1992.2467 *oreasella* Clem., 1860. (12) Det. D. L. Wagner, 1989. (cherry shootborer) C. Pl.63(3)2481 *thuiella* (Pack., 1871). (GRN) Det. G. R. Nielsen, 1991. (arborvitae leafminer*, mineuse du thuya, f., Fr.)

Family HELIODINIDAE (sun moths)

Genus *Schreckensteinia* Hübner, 18252509 *festaliella* (Hbn., 1818-19). (864) Det. J. -F. Landry, 1991. (blackberry skeletonizer)

Superfamily SESIOIDEA

Family SESIIDAE (clearwing moths)

Subfamily TINTHIINAE

Genus *Pennisetia* Dehne, 18502513 *marginata* (Harr., 1839). (1095) Det. J. R. Grehan, 1992. (raspberry crown borer*, raspberry root borer, rhizophage du framboisier, m., Fr.) C. Pl.61(8), E.&D. Pl.1(1-3); Fig.3, H. Pl.46(9) as *Bembecia marginata*

Subfamily PARANTHRENINAE

Genus *Albuna* Henry Edwards, 18812532 *fraxini* (Hy. Edw., 1881). (924) Det. J. R. Grehan, 1992. (ash clearwing) E.&D. Pl.1(45-47)Genus *Paranthrene* Hübner, 18192524 *tabaniformis* (Rottemburg, 1775). (GRN) Det. M. Sabourin, 1991. (dusky clearwing) E.&D. Pl.1(35-38); Fig.7, H. Pl.46(14) as *Memythrus tricinctus*

Subfamily SESIINAE

Genus *Alcathoe* Henry Edwards, 18822623 *caudata* (Harr., 1839). (999) Det. M. Sabourin, 1992. (clematis borer) E.&D. Pl.4(27-30), H. Pl.46(6)Genus *Carmenta* Henry Edwards, 18812596 *bassiformis* (Wik., 1856). (GRN) Det. M. Sabourin, 1992. (eupatorium borer, ironweed root borer) C. Pl.61(10), E.&D. Pl.2(55), 3(53-55); Fig.33(a,b), H. Pl.46(21) as *Synanthedon bassiformis*Genus *Melittia* Hübner, 18192536 *cucurbitae* (Harr., 1828). (GRN) Det. J. R. Grehan, 1991. (squash vine borer*, perceur de la courge, m., Fr.) C. Pl.61(9), E.&D. Pl.2(4), H. Pl.46(1) as *Melittia satyriniformis*Genus *Podosesia* Möschler, 18792589 *syringae* (Harr., 1839). (660) Det. J. D. Lafontaine 1991. (lilac borer*, ash borer*, perceur du rene, m., Fr., perceur du lilas, m., Fr.) C. Pl.60(22), E.&D. Pl.2(49,50); Fig.29(a,b) H. Pl.46(17)Genus *Synanthedon* Hübner, 18192554 *acerni* (Clem., 1860). (142) Det. J. R. Grehan, 1990. (maple callus borer*, sesie de l'erable, f., Fr.) C. Pl.61(7), E.&D. Pl.2(18,19), Fig.29(e), H. Pl.46(28)

- 2546 *acerrubri* Engelh., 1925. (Published reference Eichlin and Duckworth, 1988) E.&D. Pl.4(6,7)
 2583 *exitiosa* (Say, 1823). (857) Det. M. Sabourin, 1991. (peachtree borer*, perceur du pecher, m., Fr.)
 C. Pl.60(20), E.&D. Pl.2(38-43);Fig.27(b), H. Pl.46(18,19) as *Sanninoidea exitiosa*
 2563 *fulvipes* (Harr., 1839). (467) Det. D. L. Wagner, 1990. E.&D. Pl.2(25);Fig.23(b)
 2550 *pictipes* (G. & R., 1868). (CTP) Det. L. Shangraw, ver. M. Sabourin, 1990. (lesser
 peachtree borer*, petit perceur du pêcher, m., Fr.) C. Pl.60(17), E.&D. Pl.3(12,13);Fig.20(a,b),
 H. Pl.46(24)
 2585 *pini* (Kelllicott, 1881). (Field) Imm. Det. G. R. Nielsen. (pitch mass borer*, nodulier du pin, m., Fr.)
 E.&D. Pl.2(45);Fig.27(d), H. Pl.46(16) as *Parharmonia pni*
 2549 *scitula* (Harr., 1839). (661) Det. J. D. Lafontaine 1991. (dogwood borer*, pecan borer, sésie du
 cornouiller, f., Fr.) C. Pl.60(21), E.&D. Pl.3(10,11); Fig.19, H. Pl.46(29)

FAMILY CHOREUTIDAE (choreutid or metalmark moths) C. Pl.63(1)

Subfamily CHOREUTINAE

Genus Caloreas Heppner, 1977

- 2641 *leucobasis* (Dyar, 1900). (538) Det. J. R. Grehan, 1990.

Genus Choreutis Hübner, 1825

- 2650 *pariana* (Cl., 1759). (430) Det. P. T. Dang, 1991. (apple-and-thorn skeletonizer*, squeletteuse du
 pommier et du cenellier, f., Fr.)

Genus Tebenna Billberg, 1820

- 2648 *onustana* (Wlk., 1864). (1191) Det. J. -F. Landry, 1993.

Superfamily COSSOIDEA

Family COSSIDAE (carpenterworms and leopard moth)

Subfamily COSSINAE

Genus Acozzus Dyar, 1905

- 2675 *centerensis* (Lint., 1877). (209) Det. D. F. Schweitzer, 1994.

Genus Prionoxystus Grote, 1882

- 2693 *robiniae* (Peck, 1818). (501) Det. J. R. Grehan, 1993. (carpenterworm*, charpentier des bois
 tendres, m., Fr.) C. Pl.7(6,9), H. Pl.41(10,11)

Superfamily TORTRICOIDEA

Family TORTRICIDAE (tortricid moths, tordeuses, f., Fr.)

Subfamily OLETHREUTINAE

Genus Ancylis Hübner, 1825

- 3387 *albocostana* Kft., 1905. (725) Det. M. Sabourin & P. T. Dang, 1991. WM. P.82
 3376 *apicana* (Wlk., 1866). (726) Det. P. T. Dang, 1991. (raspberry leaffolder) WM. P.81
 3372 *brauni* (Heinr., 1931). (MS) Det. M. Sabourin, 1992.
 3367 *burgessiana* (Zell., 1875). (240) Det. J. R. Grehan, 1990. (oak leafroller or leaffolder, plieuse du
 chêne, f., Fr.) WM. P.80
 3378 *carbonana* Heinr., 1923. (1133) Det. M. Sabourin, 1992. WM. P.81
 3374 *comptana* (Frölich, 1828). (747) Det. P. T. Dang, 1991. (strawberry leafroller*, tordeuse du fraisier,
 f., Fr.) H. Fig.240, WM. P.81
 3379 *diminutana* (Haw., 1811). (148) Det. J. R. Grehan, 1990. WM. P.82

- 3358 *discigerana* (Wlk., 1863). (746) Det. M. Sabourin & P. T. Dang, 1991. (birch leaffolder, enrouleuse
 du bouleau jaune, f., Fr.)
 3375 *divisana* (Wlk., 1863). (902) Det. M. Sabourin, 1991. WM. P.81
 3369 *fuscociliana* (Clem., 1864). (1071) Det. M. Sabourin, 1992. (alder leaffolder, spiderweb leaffolder)
 3356 *galeamatana* (McD., 1956). (DLW) Det. D. L. Wagner, 1990.
 3380 *goodelliana* (Fern., 1882). (MS) Det. M. Sabourin, 1992.
 3366 *laciniana* (Zell., 1875). (DLW) Det. D. L. Wagner, 1990.
 3384 *mediofasciana* (Clem., 1864). (1389) Det. M. Sabourin, 1994. (serviceberry leaffolder) WM. P.82
 3359 *metamelana* (Wlk., 1863). (465) Det. J. R. Grehan, 1990. (clover leaf-tier, enrouleuse du trèfle, f.,
 Fr.) WM. P.80
 3368 *mira* Heinr., 1929. (DLW) Det. D. L. Wagner, 1990.
 3377 *muricana* (Wlsm., 1879). (DLW) Det. R. L. Brown. WM. P.81
 3354 *nuberculana* (Clem., 1860). (312) Det. D. L. Wagner, 1990. (cherry leaffolder, apple leaffolder) WM.
 P.80
 3355 *subaequana* (Zell., 1875). (727) Det. M. Sabourin & P. T. Dang, 1991. WM. P.80
 3386 *tineana* (Hbn., 1796-99). (MS) Det. M. Sabourin, 1992. WM. P.82

Genus Apotomis Hübner, 1825

- 2763 *albeolana* (Zell., 1875). (110) Det. J. R. Grehan, 1990.
 2753 *capreana* (Hbn., 1814-1817). (736) Det. P. T. Dang, 1991. WM. P.21
 2766 *dextrana* (McD., 1923). (1288) Det. M. Sabourin, 1993.
 2755 *funerea* (Meyr., 1920). (314) Det. J. R. Grehan, 1990. WM. P.21
 2754 *paludicolana* (Brower, 1953). (735) Det. P. T. Dang, 1991.

Genus Aterpia Guenée, 1845

- 2748 *approximana* (Heinr., 1919). (1292) Det. M. Sabourin, 1993. WM. P.19

Genus Bactra Stephens, 1834

- 2706 *furfurana* (Haw., 1811). (886) Det. M. Sabourin, 1991. WM. P.15
 2708 *maiorina* Heinr., 1923. (1224) Det. M. Sabourin, 1993. WM. P.15
 2707 *verutana* Zell., 1875. (887) Det. M. Sabourin, 1991. WM. P.15

Genus Catastega Clemens, 1861

- 3334 *aceriella* Clem., 1861. (51) Det. J. R. Grehan, 1990. (maple trumpet skeletonizer*, squeletteuse-
 trompette de l'érable, f., Fr.) WM. P.78
 3333 *timidella* Clem., 1861. (1183) Det. M. Sabourin, 1993. WM. P.78

Genus Cydia Hübner, 1825 (*Laspeyresia* Hübner, 1825) (*Carpocapsa* Treitschke, 1829)

- 3461 *albimaculana* (Fern., 1879). (DLW) Det. D. L. Wagner, 1990. WM. P.92
 3469 *candana* (Fbs., 1923) (1042). Det. W. E. Miller, 1992. WM. P.93
 3471 *caryana* (Fitch, 1856). (761) Det. M. Sabourin, 1992. (hickory shuckworm*, foreur des brous, m.,
 Fr.) WM. P.94
 3494 *latiferreanus* (Wlsm., 1879). (410) Det. D. L. Wagner, 1990. (filbertworm*, catalina cherry moth,
 mélissope des glands, f., Fr.) C. Pl.60(4) as *Melissopus latiferreanus*, WM. P.94
 3492 *pomonella* (L., 1758). (524) Det. J. R. Grehan, 1990, ver. D. L. Wagner, 1990. (codling moth*,
 carpocapse de la pomme, m., Fr.) C. Pl.60(4), H. Fig.241, WM. P.94
 3450 *?rana* (Fbs., 1924). (MS) Det. M. Sabourin, 1992.
 3467 *rusticella* (Clerck, 1759). (MS) Det. M. Sabourin, 1991. (pea moth*, tordeuse du pois, f., Fr.) WM.
 P.93
 3455 *strobilella* (L. 1758). (GRN) Det. P. T. Dang & A. Mutuura, 1991. (spruce seed moth), tordeuse des
 graines de l'épinette, f., Fr. WM. P.93
 3486 *toreuta* (Grt., 1873). (1070) Det. M. Sabourin, 1992. (eastern pine seedworm*) WM. P.94

Genus Dichrorampha Guenée, 1845

- 3406 *bittana* (Bsk., 1906). (1230) Det. P. T. Dang & M. Sabourin, 1993. WM. P.84
 3412 *sedatana* (Bsk., 1906). (744) Det. P. T. Dang, 1991. WM. P.84
 3404 *simulana* (Clem., 1860). (MS) Det. M. Sabourin, 1993. WM. P.84

Genus *Ecdytolopha* Zeller, 1875

- 3497 *insiticiana* Zell., 1875. (365) Det. P. T. Dang, 1991. (locust twig borer*, tordeuse à galle du robinier, f., Fr.) C. Pl.60(6), H. Pl.48(29), WM. P.95

Genus *Endopiza* Clemens, 1860

- 2721 *piceana* (Free., 1941). (1232) Det. P. T. Dang, 1993. (spruce micromoth)
2712 *viteana* Clem., 1860. (730) Det. P. T. Dang, 1991. (grape berry moth, tordeuse de la vigne, fr., Fr.) WM. P.16

Genus *Endothenia* Stephens, 1852

- 2738 *hebesana* (Wik., 1863). (1164) Det. M. Sabourin, 1993. (verbena bud moth*, tordeuse de la verveine, f., Fr.) WM. P.18
2733 *heinrichi* McD., 1929. (MS) Det. P. T. Dang and M. Sabourin, 1993.

Genus *Epiblema* Hübner, 1825

- 3203 *brightonana* (Kft., 1907). (897) Det. M. Sabourin, 1991. WM. P.59
3190 *desertana* (Zell., 1875). (MS) Det. M. Sabourin, 1992. WM. P.58
3189 *obfusca* (Dyar, 1888). (DLW) Det. D. L. Wagner, 1992. WM. P.57
3202 *otiosana* (Clem., 1860). (1380) Det. M. Sabourin, 1992. (bidens borer*) C. Pl.60(3), WM. P.59
3205 *resumptana* (Wik., 1863). (431) Det. P. T. Dang, 1991. WM. P.59
3186 *scudderiana* (Clem., 1860). (47) Det. J. R. Grehan, 1990. H. Fig.239 as *Eucosma scudderiana*, WM. P.57
3172 *strenuana* (Wik., 1863). (903) Det. M. Sabourin, 1991 (ragweed borer*) WM. P.56

Genus *Epinotia* Hübner, 1825

- 3307 *criddleana* (Kft., 1907). (1449) Det. J. R. Grehan, 1994. WM. P.75 (aspen leafroller)
3351 *lindana* (Fern., 1892). (462) Det. J. R. Grehan, 1990. (dogwood leafroller) WM. P.77
3286 *medioviridana* (Kft., 1908). (525) Det. J. R. Grehan, 1990. WM. P.73
3312 *momonana* (Kft., 1907). (933) Det. M. Sabourin, 1994. WM. P.76
3338 *nanana* (Tr., 1835). (734) Det. P. T. Dang, 1991. (European spruce needleminer, mineuse européenne de l'épinette, f., Fr.) WM. P.76
3306 *nisella* (Cl., 1759). (DLW) Det. R. L. Brown, 1991. (yellowheaded aspen leaftier, tordeuse des chatons, f., Fr.) WM. P.75
3335 *nonana* (Kft., 1907). (435) Det. P. T. Dang, 1991. WM. P.76
3336 *normanana* Kft., 1907. (DLW) Det. R. L. Brown, 1991.
3269 *radicana* (Heinr., 1923). (1289) Det. P. T. Dang, 1993. WM. P.74 (redstriped needleworm)
3302 *rectiplicana* (Wism., 1879). (1050) Det. M. Sabourin, 1992.
3347 *septemberana* Kft., 1907. (1264) Det. M. Sabourin, 1993. WM. P.77
3283 *solandriana* (L., 1758). (888) Det. M. Sabourin, 1991. (birch-aspen leafroller, enrouleuse des bouleaux, f., Fr., enrouleuse du bouleau blanc, f., Fr.) WM. P.73
3304 *solicitana* (Wik., 1863). (1321) Det. M. Sabourin, 1993. (birch shootworm, tordeuse du bouleau, f., Fr.) WM. P.75
3310 *transmissana* (Wik., 1863). (184) Det. J. R. Grehan, 1990. (birch catkin moth) WM. P.76
3280 *trigonella* (L., 1758). (889) Det. M. Sabourin, 1991. (leafroller)

Genus *Episimus* Walsingham, 1892

- 2701 *argutanus* (Clem., 1860). (729) Det. P. T. Dang, 1991. (sumac leafroller, enrouleuse du vinaigrier, f., Fr.) WM. P.14

Genus *Eucosma* Hübner, 1823

- 3037 *agricolana* (Wism., 1879). (1062) Det. M. Sabourin, 1991. WM. P.49
3142 *cataclystiana* (Wik., 1863). (711) Det. J. R. Grehan, 1994. WM. P.54
3120 *derelecta* Heinr., 1929. (906) Det. M. Sabourin, 1991. (goldenrod rootstalk borer) WM. P.53
3116 *dorsisignatana* (Clem., 1860). (CTP) Det. M. Sabourin, 1991. C. Pl.58(24), WM. P.53
3066 *gloriola* Heinr., 1931. (1197) Det. M. Sabourin, 1993. (eastern pine shoot borer, perce-pousse du pin, m., Fr.) WM. P.51
3118 *graduatana* (Wism., 1879). (AMNH) Ver. M. Sabourin, 1992.
3078 *grotiana* Kft., 1908. (1059) Det. M. Sabourin, 1993.

- 3073 *monitorana* Heinr., 1920. (1368) Det. M. Sabourin, 1994. (red pine coneworm, perce-cône du pin rouge, m., Fr.) WM. P.51
3116.2 *similana* (Clem., 1860). (458) Det. J. R. Grehan, 1990. WM. P.53
3074 *tocullionana* Heinr., 1920. (MS) Det. W. E. Miller, 1994. (white pine coneworm, perce-cône du pin blanc, m., Fr.) WM. P.51
3042 *vagana* McD., 1925. (1134) Det. M. Sabourin, 1992. WM. P.50
3067.- *n. sp.*, *bobana* complex; name in manuscript (Brown, 1993). (182) Det. D. L. Wagner, 1990.

Genus *Evora* Heinrich, 1926

- 2866 *hemidesma* (Zell., 1875). (1215) Det. M. Sabourin, 1993. (spirea leaftier, spirea leafroller, lieuse de la spirée, f., Fr.) WM. P.37

Genus *Grapholita* Treitschke, 1829

- 3430 *angeleseana* (Kft., 1907). (1231) Det. M. Sabourin, 1993. WM. P.89
3438 *eclipsana* Zell., 1875. (368) Det. P. T. Dang, 1991. WM. P.90
3439 *interstinctana* (Clem., 1860). (743) Det. P. T. Dang, 1991. (clover head caterpillar*, tordeuse du trèfle, f., Fr.) WM. P.90
3428 *packardi* Zell., 1875. (DLW) Det. D. L. Wagner, 1990. (cherry fruitworm*, noctuelle des cerises, f., Fr.) WM. P.88
3429 *prunivora* (Walsh, 1868). (VDA) Det. J. Turmel. (lesser appleworm*, petit carpocapse de la pomme, m., Fr.) WM. P.89

Genus *Gretchena* Heinrich, 1923

- 3264 *amatana* Heinr., 1923. (405) Det. J. R. Grehan, 1990. WM. P.71
3265 *delicatana* Heinr., 1923. (895) Det. M. Sabourin, 1991. WM. P.71
3259 *deludana* (Clem., 1864). (899) Det. M. Sabourin, 1991. WM. P.70
3261 *watchungana* (Kft., 1907). (1195) Det. M. Sabourin, 1993. WM. P.71

Genus *Gypsonoma* Meyrick, 1895

- 3229 *adjuncta* Heinr., 1924. (42) Det. J. R. Grehan, 1990. WM. P.63
3223 *fasciolana* (Clem., 1864). (461) Det. J. R. Grehan, 1990. (willow-and-poplar leafroller) WM. P.63
3226 *haimbachiana* (Kft., 1907). (1106) Det. M. Sabourin, 1992. (cottonwood twig borer*) WM. P.63
3228 *salicicolana* (Clem., 1864). (MS) Det. M. Sabourin, 1993. WM. P.63
3227 *substitutionis* Heinr., 1923. (DLW) Det. D. L. Wagner, 1990. WM. P.63

Genus *Hedya* Hübner, 1825

- 2863 *chionosema* (Zell., 1875). (890) Det. M. Sabourin, 1991. (twinspotted budworm) WM. P.36
2860 *separatana* (Kft., 1907). (MS) Det. P. T. Dang, 1991. WM. P.36

Genus *Hendecaneura* Walsingham, 1900

- 3275 *shawiana* (Kft., 1907). (1422) Det. M. Sabourin, 1993.

Genus *Hulda* Heinrich, 1926

- 2747 *impudens* (Wism., 1884). (731) Det. P. T. Dang, 1991. WM. P.19 as *Endothenia impudens*

Genus *Lobesia* Guenée, 1845

- 2729 *spiraeae* (McD., 1938). (MS) Det. M. Sabourin, 1992.

Genus *Notocelia* Hübner, 1825

- 3208 *trimaculana* (Haw., 1811). (MS) Det. M. Sabourin, 1992.

Genus *Olethreutes* Hübner, 1822

- 2831 *agilana* (Clem., 1860). (932) Det. M. Sabourin, 1992. WM. P.33
2832 *albiciliata* (Fern., 1882). (396) Det. J. R. Grehan, 1991. WM. P.33
2821 *appendicea* (Zell., 1875). (935) Det. P. T. Dang, 1991. (perce-pousse noir de l'érable, m., Fr.) WM. P.31
2837 *astrologana* (Zell., 1875). (741) Det. P. T. Dang, 1991. WM. P.34
2785 *atrodentana* (Fern., 1882). (1433) Det. M. Sabourin, 1992. WM. P.26

- 2830 *auricapitana* (Wlsm., 1879). (931) Det. M. Sabourin, 1992. WM. P.33
 2813 *?baccatana* (McD., 1942). (MS) Det. M. Sabourin, 1992. (sweetfern leafroller)
 2798 *betulana* (Heinr., 1926). (1455) Det. M. Sabourin, 1993.
 2848 *bipartitana* (Clem., 1860). (751) Det. M. Sabourin, 1991. WM. P.35
 2859 *cespitana* (Hbn., 1814-17). (901) Det. M. Sabourin, 1991. WM. P.35
 2799 *?clavana* (Wlk., 1863). (MS) Det. M. Sabourin, 1993. WM. P.28
 2777 *?comandrana* (Clarke, 1953). (MS) Det. M. Sabourin, 1993. WM. P.26
 2822 *concinnana* (Clem., 1865). (MS) Det. M. Sabourin, 1991. WM. P.32
 2787 *connectus* (McD., 1935). (732) Det. P. T. Dang, 1991. WM. P.27
 2805 *corylana* (Fern., 1882). (MS) Det. M. Sabourin, 1993. WM. P.29
 2856 *costimaculana* (Fern., 1882). (WJK) Det. W. J. Kiel, 1990.
 2844 *deprecatorius* Heinr., 1926). (MS) Det. M. Sabourin, 1993.
 2781 *electrofuscus* (Heinr., 1923). (1413). Det. M. Sabourin, 1994. (sweetfern micro moth)
 2823 *fasciatana* (Clem., 1860). (397) Det. D. L. Wagner, 1989. WM. P.32
 2827 *ferriferana* (Wlk., 1863). (738) Det. M. Sabourin, 1991. (hydrangea leaf-tier) C. Pl.58(22)
 2784 *footiana* (Fern., 1882). (1416) Det. M. Sabourin, 1994.
 2776 *furfurana* (McD., 1922). (898) Det. M. Sabourin, 1991. WM. P.25
 2816 *galevora* (McD., 1956). (767) Det. M. Sabourin, 1992. WM. P.30
 2847 *glaciana* (Mösch., 1860). (1049) Det. M. Sabourin, 1992. WM. P.35
 2804 *hamameliana* (McD., 1944). (268) Det. J. R. Grehan, 1990. WM. P.29
 2788 *inornatana* (Clem., 1860). (892) Det. M. Sabourin, 1991. WM. P.27
 2826 *lacunana* (Free., 1941). (1039) Det. M. Sabourin, 1992.
 2839.1 *metallicana* (Hbn., 1796-99). (MS) Det. M. Sabourin, 1991. WM. P.34
 2803 *merrickana* (Kft., 1907). (893) Det. M. Sabourin, 1991. WM. P.29
 2819 *nanana* (McD., 1922). (1146) Det. M. Sabourin, 1993.
 2800 *nigrana* (Heinr., 1923). (392) Det. D. L. Wagner, 1990. (enrouleuse nigranum, f., Fr.) WM. P.28
 2775 *nitidana* (Clem., 1860). (896) Det. M. Sabourin, 1991. WM. P.25
 2778 *olivaceana* (Fern., 1882). (MS) Det. M. Sabourin, 1991. WM. P.26
 2829 *osmundana* (Fern., 1879). (MS) Det. M. Sabourin, 1993.
 2817 *permundana* (Clem., 1860). (242) Det. J. R. Grehan, 1990. (raspberry leafroller*, tordeuse du framboisier, f., Fr.) WM. P.31
 2846 *polluxana* (McD., 1922). (1135) Det. M. Sabourin, 1992.
 2786 *punctana* (Wlsm., 1903). (MS) Det. M. Sabourin, 1992. WM. P.27
 2794 *quadrifidus* (Zell., 1875). (108) Det. J. R. Grehan, 1990. WM. P.27 (chokecherry leafroller)
 2810 *?sericorana* (Wlsm., 1879). (MS) Det. M. Sabourin, 1992. WM. P.30
 2852 *septentrionana* (Curt., 1831). (1264) Det. M. Sabourin, 1993.
 2818 *submissana* (McD., 1922). (MS) Det. M. Sabourin, 1992. WM. P.31
 2795 *tiliana* (Heinr., 1923). (MS) Det. M. Sabourin, 1992. WM. P.28
 2849 *trinitana* (McD., 1931). (934) Det. P. T. Dang, 1991. WM. P.35
 2824 *?troglodana* (McD., 1922). (MS) Det. M. Sabourin, 1992. WM. P.32
 2812 *valdana* (McD., 1922). (1414) Det. M. Sabourin, 1992. WM. P.30
 2814 *versicolorana* (Clem., 1860). (MS) Det. M. Sabourin, 1992. WM. P.30
 2801 *?viburnana* (McD., 1935). (MS) Det. M. Sabourin, 1993. WM. P.28
 27.. *n. sp. near rusticana* (McD., 1922). (MS) Det. M. Sabourin, 1992.

Genus *Orthotaenia* Stephens, 1829

- 2770 *undulana* (D. & S., 1775). (394) Det. J. R. Grehan, 1990. (dusky leafroller) WM. P.23

Genus *Pammene* Hübner, 1825

- 3420 *perstructana* (Wlk., 1863). (1194) Det. M. Sabourin, 1993. WM. P.86

Genus *Phaneta* Stephens, 1852

- 2911 *awemeana* (Kft., 1907). (DLW) Det. D. L. Wagner, 1990. WM. P.42
 2910 *essexana* (Kft., 1907). (DLW) Det. D. L. Wagner, 1990. WM. P.42
 2915 *ferruginana* (Fern., 1882). (1061) Det. M. Sabourin, 1992.
 2916 *formosana* (Clem., 1860). (1077) Det. M. Sabourin, 1991. WM. P.42
 3000 *imbridana* (Fern., 1905). (891) Det. M. Sabourin, 1992.
 2982 *kiscana* (Kft., 1907). (DLW) Det. D. L. Wagner, 1990. WM. P.47

- 2929 *ochroterminana* (Kft., 1907). (292) Det. J. R. Grehan, 1990. WM. P.44
 2998 *olivaceana* (Riley, 1881). (900) Det. M. Sabourin, 1991. WM. P.47
 2937 *parmatana* (Clem., 1860). (464) Det. J. R. Grehan, 1990, ver. M. Sabourin, 1991. (aster flower head cat.) WM. P.44
 2908 *radiatana* (Wlsm., 1879). (111) Det. J. R. Grehan, 1990. WM. P.42
 2928 *raracana* (Kft., 1907). (460) Det. J. R. Grehan, 1990. WM. P.43
 2973 *striatana* (Clem., 1860). (1060) Det. M. Sabourin, 1992. WM. P.46
 2936 *tomonana* (Kft., 1907). (1136) Det. M. Sabourin, 1992. WM. P.44
 2913 *umbrastriana* (Kft., 1907). (MS) Det. M. Sabourin, 1992. WM. P.43
 2926 *verna* Miller, 1994. (1390) Det. M. Sabourin & W. E. Miller, 1994.

Genus *Proteoteras* Riley, 1881

- 3230 *aesculana* Riley, 1881. (248) Det. J. R. Grehan, 1990. (mapletwig borer) WM. P.64
 3233 *crescentana* Kft., 1907. (269) Det. J. R. Grehan, 1990. WM. P.64
 3235 *moffatiana* Fern., 1905. (742) Det. P. T. Dang, 1991. (mapleshoot borer, perce-pousse de l'érable, m., Fr.) WM. P.65
 3232 *willingana* (Kft., 1904). (Field) Imm. Det. G. R. Nielsen. (boxelder twig borer*, perceur de l'érable négondo, m., Fr.) WM. P.64

Genus *Pseudexentera* Heinrich, 1940

- 3257 *costomaculana* (Clem., 1860). (610) Det. M. Sabourin, 1991. WM. P.70
 3246 *cressoniana* (Clem., 1864). (437) Det. P. T. Dang, 1991. (oak olethreutid, oak leafroller) WM. P.67
 3253 *faracana* (Kft., 1907). (MS) Det. M. Sabourin, 1993. WM. P.67
 3255 *kalmiana* McD., 1959. (745) Det. P. T. Dang, 1991. WM. P.69
 3247 *mali* Free., 1942. (1192) Det. M. Sabourin, 1993. (pale apple leafroller, tordeuse pâle du pommier, f., Fr.) WM. P.68
 3248 *oregonana* (Wlsm., 1879). (1193) Det. M. Sabourin, 1993. (early aspen leafcurler, aspen leafroller, enrouleuse hâtive du tremble, f., Fr.) WM. P.69
 3251 *spoliana* (Clem., 1864). (MS) Det. M. Sabourin, 1992. WM. P.68 (oak olethreutid leafroller)
 3254.1 *?vaccinii* Miller, 1986. (MS) Det. W. E. Miller, 1992. WM. P.69
 3258 *virginiana* (Clem., 1864). (1041) Det. M. Sabourin, 1992. WM. P.70

Genus *Pseudogallaria* Rag., 1884

- 3500 *inimicella* (Zell., 1872). (1402) Det. M. Sabourin, 1994.

Genus *Pseudosciaphila* Obraztsov, 1966

- 2769 *duplex* (Wlsm., 1905). (243) Det. J. R. Grehan, 1990. (spotted aspen leafroller, enrouleuse du peuplier, f., Fr.) WM. P.23

Genus *Retinia* Guenée 1845

- 2892 *albicapitana* (Bsk., 1914). (107) Det. J. R. Grehan, 1990. (northern pitch twig moth*, northern pitch twig borer, pitch nodule maker, nodulier du pin gris, m., Fr.) WM. P.39
 2889 *comstockiana* (Fern., 1879). (19) Det. D. L. Wagner, 1989. (pitch twig moth*, pitch twig borer, nodulier du pin rigide, m., Fr.)
 2898 *gemistrigulana* (Kft., 1905). (330) Det. J. R. Grehan, 1990. WM. P.40

Genus *Rhopobota* Lederer, 1859

- 3278 *finitimana* (Heinr., 1923). (DLW) Det. D. L. Wagner, 1990. WM. P.72

Genus *Rhyacionia* Hübner, 1825

- 2877 *adana* Heinr., 1923. (MS) Det. M. Sabourin, 1994.
 2867 *buoliana* (D. & S., 1775). (642) Det. G. R. Nielsen 1991. (European pine shoot moth, perce-pousse européen du pin, m., Fr.) WM. P.38

Genus *Serda* Heinrich, 1923

- 3425 *tautana* (Clem., 1865). (905) Det. M. Sabourin, 1991. WM. P.87, 88

Genus *Sonia* Heinrich, 19233219 *canadana* McD., 1925. (885) Det. M. Sabourin, 1991. WM. P.62Genus *Spilonota* Stephens, 18292906 *ocellana* (D. & S. 1775). (444) Det. P. T. Dang, 1991. (eyespotted bud moth*, brown apple budworm, pique-bouton du pommier, m., Fr.) WM. P.41Genus *Taniva* Heinrich, 19262745 *albolineana* Kft., 1907. (733) Det. P. T. Dang, 1991. (spruce needleminer*, mineuse de l'épinette, f., Fr.) WM. P.19 s *Endothenia albolineana*Genus *Zeiraphera* Treitschke, 18293240 *canadensis* Mutuura & Free., 1967. (Field) Det. G. R. Nielsen, 1991. (spruce bud moth*, tordeuse de l'épinette, f., Fr.) WM. P.66Subfamily **TORTRICINAE**Genus *Acleris* Hübner, 1825

- 3553 *bowmanana* (McD., 1934). (411) Det. P. T. Dang, 1991.
 3518 *braunana* (McD., 1934). (963) Det. M. Sabourin, 1992. (alder leafroller, enrouleuse de l'aulne, f. Fr.)
 3558 *busckana* (McD., 1934). (412) Det. P. T. Dang, 1991.
 3533 *celiana* (Rob., 1869). (432) Det. P. T. Dang, 1991. (birch leafroller, enrouleuse du bouleau, f. Fr.)
 3514 *cervinana* (Fern., 1882). (943) Det. M. Sabourin, 1991.
 3539 *chalybeana* (Fern., 1882). (56) Det. J. R. Grehan 1991. (lesser maple leafroller)
 3516 *?comandrana* (Fern., 1892). (MS) Det. P. T. Dang, 1992.
 3523 *cornana* (McD., 1933). (753) Det. P. T. Dang, 1991. (dogwood leafroller, enrouleuse du cornouiller, f. Fr.)
 3559 *emargana* (F., 1775). (CTP) Det. M. Sabourin, 1991.
 3542 *flavivittana* (Clem., 1864). (413) Det. P. T. Dang, 1991. (masked leafroller)
 3525 *forbesana* (McD., 1934). (750) Det. M. Sabourin, 1991.
 3532 *fragariana* Kft., 1904. (1459). Det. W. J. Kiel, 1994.
 3520 *fuscana* (B. & Bsk., 1920). (438) Det. P. T. Dang, 1991. (small aspen leaftier)
 3561 *hudsoniana* (Wik., 1863). (MCZ) Det. A. E. Brower, 1947.
 3519 *kearfottana* (McD., 1934). (1225) Det. M. Sabourin, 1993.
 3540 *logiana* (Cl., 1759). (49) Det. D. L. Wagner, 1990. (blackheaded birch leafroller, tortricide des bouleaux, f., Fr.)
 3549 *maccana* (Tr., 1835). (391) Det. P. T. Dang, 1991.
 3506 *macdunnoughi* Obr., 1963. (434) Det. P. T. Dang, 1991.
 3543 *maculidorsana* (Clem., 1864). (904) Det. M. Sabourin, 1991.
 3510 *nivisellana* (Wism., 1879). (54) Det. P. T. Dang, 1991. (apple leaf twister)
 3556 *?nigrolinea* (Rob., 1869). (1170) Det. M. Sabourin, 1993.
 3529 *oxycoccana* (Pack., 1869). (MS) Det. M. Sabourin, 1991.
 3536 *robinsoniana* (Fbs., 1923). (433) Det. P. T. Dang, 1991.
 3527 *schalleriana* (L. 1761). (752) Det. P. T. Dang, 1991.
 3521 *semiannula* (Rob., 1869). (55) Det. D. L. Wagner, 1990.
 3517 *subnivana* (Wik., 1863). (436) Det. P. T. Dang, 1991.
 3548 *variana* (Fern., 1886). (749) Det. M. Sabourin, 1991. (eastern blackheaded budworm*, tordeuse à tête noire de l'épinette, f. Fr.)
 3550 *youngana* (McD., 1934). (MS) Det. M. Sabourin, 1994.
 3521.1 *n. sp., semiannula complex; name in manuscript (Dang, 1992).* (MS) Det. M. Sabourin, 1992.

Genus *Amorbia* Clemens, 18603748 *humerosana* Clem., 1860. (724) Det. P. T. Dang, 1991. (dusky leafroller, whieline leafroller, tordeuse sombre, f., Fr.)Genus *Anopina* Obraztsov, 19623584 *ednana* (Kft., 1907). (739) Det. P. T. Dang, 1991.Genus *Aphelia* Hübner, 18253675 *alleniana* (Fern., 1882). (1291) Det. M. Sabourin, 1993. (pine-and-clover tier)Genus *Archips* Hübner, 1822

- 3648 *argyrospila* (Wik., 1863). (530) Det. D. L. Wagner, 1990. (fruittree leafroller*, tordeuse du pommier, f., Fr.)
 3661 *cerasivorana* (Fitch, 1856). (723) Det. P. T. Dang, 1991. (uglynest caterpillar*, tordeuse du cerisier, f., Fr.)
 3666 *dissitana* (Grt., 1879). (422) Det. P. T. Dang, 1991. (spruce needle moth)
 3652 *?myricana* (McD., 1923). (MS) Det. M. Sabourin, 1992.
 3667 *packardiana* (Fern., 1886). (1424) Det. M. Sabourin, 1994. (spring spruce needle moth, fir tortrix, tordeuse verte de l'épinette, f., Fr.)
 3658 *purpurana* (Clem., 1865). (395) Det. J. R. Grehan, 1990. (omnivorous leafroller, tortricide purpurine, f., Fr.)
 3650 *rosana* (L., 1758). (310) Det. P. T. Dang, 1991. (European leafroller, filbert leafroller, tordeuse européenne, f., Fr.)
 3653 *semiferana* (Wik., 1863). (1444) Det. M. Sabourin, 1994. (oak leafroller)
 3664 *striana* (Fern., 1905). (894) Det. W. J. Kiel, 1991. (lined spruce needle moth)

Genus *Argyrotaenia* Stephens, 1852

- 3624 *alisellana* (Rob., 1869). (48) Det. D. L. Wagner, 1990.
 3622 *juglandana* (Fern., 1879). (883) Det. P. T. Dang, 1991. (hickory leafroller*, enrouleuse du noyer, f., Fr.)
 3625 *mariana* (Fern., 1882). (192) Det. J. R. Grehan, 1990. (graybanded leafroller*, tordeuse à bandes grises, f., Fr.)
 3607 *occultana* Free. 1942. (879) Det. P. T. Dang, 1991. (fall spruce needle moth, tordeuse d'automne de l'épinette, f., Fr.) C. Pl.61(2) as *A. velutinana*
 3602 *pinatubana* (Kft., 1905). (126) Det. D. L. Wagner, 1990. (pine tube moth*, tordeuse tubicole du pin, f., Fr.)
 3621 *quadrifasciana* (Fern., 1882). (757) Det. P. T. Dang, 1991. (fourlined leafroller, enrouleuse quadrilignée, f., Fr.)
 3623 *quercifoliana* (Fitch, 1858). (399) Det. J. R. Grehan, 1991. (tortricid oakworm, enrouleuse du chêne, f., Fr.)
 3597 *velutinana* (Wik., 1863). (241) Det. D. L. Wagner, 1990. (redbanded leafroller*, tordeuse à bandes rouges, f., Fr.) C. Pl.61(1)

Genus *Choristoneura* Lederer, 1859

- 3637 *conflictana* (Wik., 1863). (722) Det. P. T. Dang (1991). (large aspen tortrix*, tordeuse du tremble, f., Fr.)
 3632 *fractivittana* (Clem., 1865). (1369) Det. M. Sabourin, 1994. (hardwood leafroller, trdeuse des feuillus, f., Fr.)
 3638 *fumiferana* (Clem., 1865). (498) Det. J. R. Grehan, 1990. (spruce budworm*, tordeuse des bourgeons de l'épinette, f., Fr.)
 3643 *pinus* Free., 1953. (768) Det. D. L. Wagner, 1990. (jack pine budworm*, tordeuse du pin gris, f., Fr.)
 3635 *rosaceana* (Harr., 1841). (628) Det. P. T. Dang & M. Sabourin, 1991. (obliquebanded leafroller*, tordeuse à bandes obliques, f., Fr.)
 3634 *zapulata* (Rob., 1869). (884) Det. P. T. Dang & A. Mutuura, 1991.

Genus *Clepsis* Guenée, 1845

- 3684 *clemensiana* (Fern., 1879). (880) Det. P. T. Dang, 1991.
 3682 *persicana* (Fitch, 1856). (179) Det. J. R. Grehan, 1990. (whitetriangle tortrix*, tortricide à triangle blanc, f., Fr.)
 3686 *melaleucana* (Wik., 1863). (181) Det. D. L. Wagner, 1990. (trillium tortrix)

Genus *Cnephasia* Curtis, 1826356... *stephensiana* (Dbl., 1849). (878) Det. P. T. Dang & A. Mutuura, 1991.

Genus *Coelostathma* Clemens, 18603747 *discopunctana* Clem., 1860. (1302) Det. M. Sabourin, 1993.Genus *Croesia* Hübner, 1825

- 3504 *curvalana* (Kft., 1907). (1270) Det. M. Sabourin, 1993. (blueberry leafworm)
 3501 *forskaleana* (L., 1758). (1453) Det. M. Sabourin, 1994.
 3503 *semipurpurana* (Kft., 1905). (1271) Det. M. Sabourin, 1993. (oak leaftier*, oak leafshredder, tordeuse printanière du chêne, f., Fr.)

Genus *Decodes* Obraztsov, 19613573 *basiplaganus* (Wlsm., 1879). (185) Det. D. L. Wagner, 1990.Genus *Eana* Billberg, 18203568 *argentana* (Cl., 1759). (MS) Det. M. Sabourin, 1994.Genus *Eulia* Hübner, 18253565 *ministrana* (L., 1758). (398) Det. J. R. Grehan, 1991.Genus *Pandemis* Hübner, 1825

- 3593 *lamprosana* (Rob., 1869). (882) Det. P. T. Dang, 1991. (willow-aspen leafroller, enrouleuse des feuillus, f., Fr.)
 3594 *limitata* (Rob., 1869). (526) Det. J. R. Grehan, 1991. (threelined leafroller*, varispotted leafroller, enrouleuse trilignée, f., Fr.)

Genus *Platynota* Clemens, 18603740 *idaeusalis* (Wik., 1859). (459) Det. D. L. Wagner, 1990. (tufted apple bud moth*)Genus *Ptycholoma* Clemens, 1860

- 3688 *peritana* (Clem., 1860). (740) Det. P. T. Dang, 1991. (garden tortrix, tordeuse des jardins, f., Fr.)
 3689 *virescana* (Clem., 1865). (1056) Det. M. Sabourin, 1992.

Genus *Sparganothis* Hübner, 1825

- 3726 *acerivorana* MacKay, 1952. (GRN) Det. M. Sabourin, 1992. (maple leafroller, enrouleuse de l'érable, f., Fr.)
 3716 *diluticostana* (Wlsm., 1879). (728) Det. P. T. Dang, 1991. (spring dead-leafroller)
 3722 *directana* (Wik., 1863). (MS) Det. M. Sabourin, 1992. (cherry leaf roller, enrouleuse du cerisier, f., Fr.)
 3697 *lycopodiana* (Kft., 1907). (1319) Det. M. Sabourin, 1991.
 3727 *niveana* (Wlsm., 1879). (105) Det. J. R. Grehan, 1991. (enrouleuse de l'ostryer, f., Fr.)
 3725 *pettitana* (Rob., 1869). (748) Det. M. Sabourin, 1991. (maple-basswood leafroller, enrouleuse de Pettit, f., Fr.)
 3720 *reticulatana* (Clem., 1860). (7) Det. J. R. Grehan, 1989.
 3695 *sulfureana* (Clem., 1860). (313) Det. J. R. Grehan, 1991. (sparganothis fruitworm, cranberry sparganothis, blueberry leafroller)
 3699 *tristriata* Kft., 1907. (881) Det. P. T. Dang & M. Sabourin, 1991.
 3715 *umbrana* B & Bsk., 1920 (putmanana Free., 1940). (947) Det. P. T. Dang, 1991. (birdsfoot trefoil leaftier, trefoil webworm).
 3711 *unifasciana* (Clem., 1864). (737) Det. M. Sabourin, 1991. (needle tier)
 3710 *violaceana* (Rob., 1869). (MS) Det. M. A. Roberts, 1992.
 3706 *xanthoides* (Wik., 1863). (1137) Det. M. Sabourin, 1992.

Genus *Syndemis* Hübner, 18253672 *afflictana* (Wik., 1863). (82) Det. D. L. Wagner, 1990. (fall dead-leafroller)Genus *Xenotemna* Powell, 19643693 *pallorana* (Rob., 1869). (MS) Det. M. Sabourin, 1992.

Family COCHYLIDAE (the cochylid moths)

Genus *Aethes* Billberg, 1820

- 3807 *angulatana* (Rob., 1869). (DLW) Det. M. G. Pogue.
 3808 *angustana* (Clem., 1860). (1101) Det. M. Sabourin, 1992.
 3809 *argenteimitana* (Rob., 1869). (1254) Det. M. Sabourin, 1993.
 3810 *atomosana* (Bsk., 1907). (971) Det. M. Sabourin, 1992.
 3815 *biscana* (Kft., 1907). (1298) Det. M. Sabourin, 1993.
 3844 *promptana* (Rob., 1869). (MS) Det. M. Sabourin, 1994.
 3807.1 *sp. near angulatana*. (MS) Det. M. Sabourin, 1992.

Genus *Cochylis* Treitschke, 18303806 *dubitana* (Hbn., 1799). (529) Det. D. L. Wagner, 1990. (mineuse des stobiles du bouleau, f., Fr.)Genus *Phtheochroa* Stephens, 1829

- 3804 *baracana* (Bsk., 1907). (1163) Det. M. Sabourin, 1993.
 3801 *?birdana* Bsk., 1907. (MS) Det. M. Sabourin, 1993.
 3805 *modestana* (Bsk., 1907). (MS) Det. M. Sabourin, 1992.
 3787 *vitellinana* (Zell., 1875). (1452) Det. M. Sabourin, 1994.

Genus *Saphenista* Walsingham, 1914

- 3852 *?straminoides* Grt., 1873. (1259) Det. M. Sabourin, 1993.
 *n. sp.* (DLW) Det. M. G. Pogue

Genus *Thyraylia* Walsingham, 1897

- 3769 *bunteana* (Rob., 1869). (463) Det. D. L. Wagner, 1990.
 3764 *nana* (Haw., 1811). (MS) Det. M. Sabourin, 1993.

INCERTAE SEDIS

- 3828 *hoffmanana* Kft., 1907. (DLW) Det. M. G. Pogue
 3830 *hospes* Wism., 1884. (1171) Det. M. Sabourin, 1993.
 3839 *?marloffiana* Bsk., 1907. (1261) Det. M. Sabourin, 1993.
 3842 *oenotherana* Riley, 1881. (1076) Det. J. R. Grehan, 1992.
 3854 *temerana* Bsk., 1907. (1302) Det. M. Sabourin, 1992.
 3857 *viscana* Kft., 1907. (DLW) Det. M. G. Pogue
 3858 *?voxcana* Kft., 1907. (1260) Det. M. Sabourin, 1993.
 3861 *?zaracana* Kft., 1907. (1258) Det. M. Sabourin, 1993.

Butterflies (papillons diurnes, m., Fr.)

Superfamily HESPERIOIDEA (the skippers)

Family HESPERIIDAE (skippers)

Subfamily PYRGINAE (Pyrgine skippers)

Genus *Epargyreus* Hübner, 18193870 *clarus* (Cram., 1779). (DHM/1020) Det. D. H. Miller, 1991. (silver-spotted skipper*, hespérie à taches argentées, f., Fr.) O.&M. Pl.8,39Genus *Erynnis* Schrank, 1801

- 3945 *icelus* (Scudder & Burgess, 1870). (DHM/618) Det. D. H. Miller, 1991. (dreamy duskywing, hespérie givrée, f., Fr.) O.&M. Pl.41
 3947 *juvenalis* (F. 1793). (1272) Det. D. F. Schweitzer, 1993. (Juvenal's duskywing, hespérie du chêne, f., Fr.) O.&M. Pl.41
 3958 *lucilius* (Scudder & Burgess, 1870). (JDH) Det. M. Sabourin, 1989, ver. D. F. Schweitzer, 1990. (columbine duskywing, columbine skipper) O.&M. Pl.41

3961 *persius* (Scudder, 1863) Unpublished record, P. A. Opler 1983 (*persius* duskywing) O.&M. Pl.41

Genus *Thorybes* Scudder, 1872

3910 *pylades* (Scudder, 1870). (DHM/1035) Det. D. Miller, 1991. (northern cloudywing, hespérie nuageuse, f., Fr.) O.&M. Pl.40

Subfamily HETEROPTERINAE

Genus *Carterocephalus* Lederer, 1852

3982 *palaemon* (Pallas, 1771). (DHM/1021) Det. D. H. Miller, 1991. (arctic skipper, échiquier, m., Fr.) O.&M. Pl.42

Subfamily HESPERIINAE (Hesperine skippers)

Genus *Amblyscirtes* Scudder, 1872

4096 *hegon* (Scudder, 1864). (DHM/1276) Det. W. J. Kiel, 1991. (pepper and salt skipper) O.&M. Pl.47
4105 *vialis* (Edw., 1862). (DHM/1457) Det. W. J. Kiel, 1991. (roadside skipper, common roadside skipper, hespérie violacée, f., Fr.) O.&M. Pl.47

Genus *Ancyloxypha* C. Felder, 1862

4004 *numitor* (F., 1793). (DHM/1022) Det. D. H. Miller, 1991. (least skipper) O.&M. Pl.13,43

Genus *Atrytone* Scudder, 1872

4051 *logan* (Edw., 1863). (1032) Det. M. Sabourin, 1991. (Delaware skipper) O.&M. Pl.13,45

Genus *Euphyes* Scudder, 1872

4077 *bimacula* (G. & R. 1867). (DHM) Det. D. H. Miller, 1992. (two-spotted skipper) O.&M. Pl.13,47
4072 *dion* (Edw., 1879). (1031) Det. J. D. Hedbor, 1990, ver D. F. Schweitzer, 1990. (*dion* skipper) O.&M. Pl.46
4078 *vestris* (Bdv., 1852). (DHM/1024) Det. W. J. Kiel, 1991. (dun skipper, hespérie rurale, f., Fr.) O.&M. Pl.47

Genus *Hesperia* Fabricius, 1793

4020c *comma laurentina* (Lyman, 1892). (DHM/1278) Det. D. H. Miller, 1991. (Laurentian skipper, comon branded skipper, hespérie laurentienne, f., Fr.) O.&M. Pl.43
4023 *leonardus* Harr., 1862. (1040) Det. M. Sabourin, 1991. (*Leonardus* skipper, Leonard's skipper) O.&M. Pl.13,43
4027 *metea* Scudder, 1864. Unpublished record by P. A. Opler, 1983. (cobweb skipper) O.&M. Pl.43
4033 *sassacus* Harr., 1862. (DHM) Det. W. J. Kiel, 1991. (Indian skipper) O.&M. Pl.44

Genus *Poanes* Scudder, 1872

4059 *hobomok* (Harr., 1862). (DHM/1023) Det. D. H. Miller, 1991. (hobomok skipper, hespérie hobomok, f., Fr.) O.&M. Pl.45
4058 *massasoit* (Scudder, 1864). (JDH) Det. J. D. Hedbor, 1989. (Mulberry skipper) O.&M. Pl.46
4064 *viator viator* (Edw., 1865). (1419) Det. M. S. Griggs & ver. J. M. Burns, 1994. (broadwinged skipper, hespérie voyageuse, f., Fr.) O.&M. Pl.46

Genus *Polites* Scudder, 1872

4043 *mystic* (Edw., 1863). (DHM/1274) Det. W. J. Kiel, 1991. (long dash, hespérie mystique, f., Fr.) O.&M. Pl.44
4042 *origenes* (F., 1793). (1034) Det. D. F. Schweitzer, 1993. (crossline skipper) O.&M. Pl.44
4036 *peckius* (W. F. Kirby, 1837) (DHM/1277) Det. W. J. Kiel, 1991. (Peck's skipper, hespérie de Peck, f., Fr.) O.&M. Pl.13,44
4041 *themistocles* (Latr., 1824). (DHM/1033) Det. W. J. Kiel, 1991. (tawny-edged skipper, hespérie à tache costale, f., Fr.) O.&M. Pl.44

Genus *Pompeius* Evans, 1955

4048 *verna* (Edw., 1862). (DHM/1275) Det. W. J. Kiel, 1991. (little glassywing) O.&M. Pl.45

Genus *Thymelicus* Hübner, 1819 (*Adopoea* Billberg, 1820)

4012 *lineola* (Ochs., 1808). (DHM/1025) Det. D. H. Miller, 1991. (European skipper, hespérie des graminées, f., Fr.) O.&M. Pl.13,44

Genus *Wallengrenia* Berg, 1897

4047 *egeremet* (Scudder, 1864) (1273) Det. D. F. Schweitzer, 1993. (northern broken dash) O.&M. Pl.45

Superfamily PAPILIONOIDEA (true butterflies)

Family PAPILIONIDAE (swallowtails, queues d'hirondelles, f., Fr.)

Subfamily PAPILIONINAE

Genus *Papilio* Linnaeus, 1758

4176.1 *canadensis* R. & J. 1906. (DHM/1018) Det. D. H. Miller, 1991. (northern or Canadian tiger swallowtail, papillon tigré du Canada, m., Fr.) O.&M. Pl.16
4159 *polyxenes* F., 1775. (DHM/1019) Det. D. H. Miller, 1991. (black swallowtail*, parsleyworm* celeryworm, parsnipworm, papillon du céleri, m., Fr.) O.&M. Pl.2,4,5,14
4181 *troilus* L., 1758. Unpublished record by P. A. Opler, 1983 (spicebush swallowtail*) O.&M. Pl.2,5,14

Family PIERIDAE (whites and sulphurs)

Subfamily PIERINAE (whites, piérides, f., Fr.)

Genus *Pieris* Shrank, 1801

4195d *napi oleracea* (Harr., 1829). (DHM/613) Det. D. H. Miller, 1991. (grey veined or mustard white, piéride des crucifères, f., Fr.) O.&M. Pl.4,17
4197 *rapae* (L. 1758). (DHM/1015) Det. D. H. Miller, 1991. (imported cabbageworm*, European cabbage butterfly, small or garden cabbage white, piéride du chou, f., Fr.) O.&M. Pl.2,4,6,16
4196 *virginiensis* (Edw., 1870). (1138) Det. M. Sabourin, 1990. (West Virginia White, piéride de Virginie, f., Fr.) O.&M. Pl.17

Subfamily COLIADINAE (sulphurs)

Genus *Colias* Fabricius, 1907

4210 *eurytheme* Bdv., 1852. (DHM/1304) Det. D. H. Miller, 1991. (alfalfa cat.*, orange sulphur, or alfalfa butterfly, coliaide de la luzerne, m., Fr.) O.&M. Pl.2,6,18
4220 *interior* Scudder, 1862. (DHM/1395) Det. D. H. Miller, 1991. (pink-edged sulphur, coliaide intérieur, m., Fr.) O.&M. Pl.18
4209 *philodice* Godt., 1819. (DHM/611) Det. D. H. Miller, 1991. (common or clouded sulphur*, coliaide du trèfle, m., Fr.) O.&M. Pl.18

Genus *Eurema* Hübner, 1819

4237 *lisa* Bdv. & Leconte, 1829. (MS) Det. M. Sabourin, 1970. (little sulphur or yellow, piéride jaune, f., Fr.) O.&M. Pl.5,20

Family LYCAENIDAE (gossamer winged butterflies; blues, coppers, and hairstreaks)

Subfamily MILETINAE (Harvesters)

Genus *Feniseca* Grote, 1869

4249 *tarquinius* (F., 1793). (DHM/1283) Det. D. H. Miller, 1991. (harvester, wanderer, piebald, moissonneur, m., Fr.) O.&M. Pl.7,21

Subfamily LYCAENINAE (coppers)

Genus *Epidemia* Scudder, 1876

4260a *epixanthe phaedra* (Hall, 1924). (DHM/617) Det. D. H. Miller, 1991. (Newfoundland copper, bog copper, cuivré des tourbières, m., Fr.) O.&M. Pl.21 as *Lycaena epixanthe*

Genus *Hylolycaena* L. Miller & F. M. Brown, 1978

4256 *hyllus* (Cram., 1775). (DHM/1314) Det. D. H. Miller, 1991. (bronze or large copper, bronzé, m., Fr.) O.&M. Pl.7,21 as *Lycaena hyllus*

Genus *Lycaena* Fabricius, 1807

4251 *phlaeas* (L., 1761). (DHM/1017) Det. D. H. Miller, 1991. (small, little, or American copper, cuivré d'Amérique, m., Fr.) O.&M. Pl.7,21

Subfamily THECLINAE (Hairstreaks)

Genus *Erora* Scudder, 1872

4349 *laetus* (Edw., 1862). (DHM/1285) Det. D. H. Miller, 1990, ver. W. J. Kiel 1990. (early hairstreak, lutin mystérieux, m., Fr.) O.&M. Pl.24

Genus *Incisalia* Scudder, 1872

4322 *augustinus* (Westwood, 1852). (DHM/1318) Det. D. H. Miller, 1991. (bronze or brown elfin, lutin brun, m., Fr.) O.&M. Pl.23 O.&M. Pl.23

4328 *niphon* (Hbn., 1819). (DHM/616) Det. W. J. Kiel, 1991. (eastern pine elfin, lutin des pins, m., Fr.) O.&M. Pl.23

Genus *Mitoura* Scudder, 1872

4318 *gryneus* (Hbn., 1819). (DHM/1305) Det. D. H. Miller, 1991. (olive hairstreak) O.&M. Pl.6,22

Genus *Satyrium* Scudder, 1876

4278 *acadicum* (Edw., 1862). (DHM/1398) Det. W. J. Kiel, 1991. (acadian hairstreak, porte-queue d'Acadie, m., Fr.) O.&M. Pl.23

4282 *calanus* (Hbn., 1809). (DHM/1282) Det. W. J. Kiel, 1991. (banded hairstreak, porte-queue du chêne, m., Fr.) O.&M. Pl.7,23

4283 *caryaevorum* (McD., 1942). (1360) Det. J. R. Grehan, ex. gen., 1993. (hickory hairstreak, porte-queue du caryer, m., Fr.) O.&M. Pl.23

4285 *liparops* (Leconte, 1833). (DHM/614) Det. W. J. Kiel, 1991. (striped hairstreak, porte-queue à bandes brisées, m., Fr.) O.&M. Pl.23

4275 *titus* (F., 1793). (DHM) Det. D. H. Miller, 1991. (coral hairstreak, porte-queue abrogé, m., Fr.) O.&M. Pl.7,23

Genus *Strymon* Hübner, 1818

4336 *melinus* Hbn., 1818. (DLW) Det. D. L. Wagner, 1990. (cotton square borer*, gray or common hairstreak, porte-queue gris, m., Fr.) O.&M. Pl.24

Subfamily POLYOMMATINAE

Genus *Everes* Hübner, 1819

4361 *comyntas* (Godt., 1824). (DHM/1284) Det. D. H. Miller, 1991. (eastern tailed blue, bleu porte-queue de l'est, m., Fr.) O.&M. Pl.25

Genus *Celastrina* Tutt, 1906

4363 *agriolus* (L. 1758). (DHM/615) Det. D. H. Miller, 1991. (spring azure, holly blue, azur printanier, m., Fr.) O.&M. Pl.8;25

Genus *Glaucopsyche* Scudder, 1872

4372 *lygdamus couperi* Grote, 1873. (DHM/1016) Det. D. H. Miller, 1991. (silvery blue, bleu argenté, m., Fr.) O.&M. Pl.25

Family LIBYTHEIDAE (snout butterflies)

Subfamily LIBYTHEINAE

Genus *Libytheana* Michener, 1943

4410 *bachmanii* (Kirtland, 1851). Unpublished record by P. A. Opler, 1983. (eastern snout butterfly, American snout) O.&M. Pl.8,27 as *L. carinenta*

Family NYMPHALIDAE (brush-footed butterflies)

Subfamily NYMPHALINAE

Genus *Nymphalis* Kluk, 1802

4432 *antiopa* (L., 1758). (DHM/1006) Det. D. H. Miller, 1991. (mourning cloak*, white bordered or camberwell beauty, spiny elm cat., morio, m., Fr., chenille épineuse de l'orme, f., Fr.) O.&M. Pl.10,32

4431 *californica* (Bdv., 1852). (Published reference. Scott, 1986) (California tortoise shell*) O.&M. Pl.32

4433 *milberti* (Godt., 1819). (DHM/774) Det. D. H. Miller, 1991. (Milbert's tortoise shell, petite vanesse, f., Fr.) O.&M. Pl.4,32

4430 *vau-album* (D. & S., 1775). (DHM/1243) Det. D. H. Miller, 1991. (compton tortoise shell, false comma, grande vanesse, f., Fr.) O.&M. Pl.10,31

Genus *Polygonia* Hübner, 1819

4421 *comma* (Harr., 1842). (DHM/1009) Det. D. H. Miller, 1991. (hop merchant, comma, eastern comma, polygone virgule, m., Fr.) O.&M. Pl.10,31

4423 *faunus* (Edw., 1862). (DHM/1456) Det. D. H. Miller, 1991. (green comma, polygone à taches vertes, m., Fr.) O.&M. Pl.31

4420 *interrogationis* (F. 1798). (DHM/1244) Det. D. H. Miller, 1991. (question mark, polygone à queue violacée, m., Fr.) O.&M. Pl.10,31

4429 *progne* (Cram., 1776). (DHM/1279) Det. D. H. Miller, 1991. (gray comma, polygone gris, m., Fr.) O.&M. Pl.31

Genus *Vanessa* Fabricius, 1807

4437 *atalanta* (L., 1758). (DHM/1005) Det. D. H. Miller, 1991. (red admiral*, vulcain, m., Fr.) O.&M. Pl.11,32

4435 *cardui* (L., 1758). (DHM/1241) Det. D. H. Miller, 1991. (painted lady*, cosmopolitan, belle dame, f., Fr.) O.&M. Pl.3,10,32

4434 *virginensis* (Drury, 1773). (DHM) Det. D. H. Miller, 1991. (painted beauty*, American painted lady, American lady, Hunter's butterfly, vanessede Virginie, f., Fr.) O.&M. Pl.10,32

Subfamily ARGYNNINAE

Genus *Clossiana* Reuss, 1920

4465 *bellona* (F., 1775). (DHM/1239) Det. D. H. Miller, 1991. (meadow fritillary, boloria des prés, m., Fr.) O.&M. Pl.27 as *Boloria bellona*

4464 *selene* (D. & S., 1775). (DHM/1013) Det. D. H. Miller, 1991. (small dashed pearl or silver-bordered fritillary, boloria à taches argentées, m., Fr.) O.&M. Pl.9,27 as *Boloria selene*

Genus *Euptoieta* Doubleday, 1848

4447 *claudia* (Cram., 1776). (983) Det. M. Sabourin, 1991. (variegated fritillary, fritillaire panachée, f., Fr.) O.&M. Pl.3,29

Genus *Speyeria* Scudder, 1872

4461 *aphrodite* (F. 1787). (DHM) Det. D. H. Miller, 1991. (aphrodite, argynne aphrodite, m., Fr.) O.&M. Pl.29

4460 *atlantis* (Edw., 1862). (DHM/1236) Det. D. H. Miller, 1991. (Atlantis fritillary, mountain silver-spot, argynne de l'Atlantique, m., Fr.) O.&M. Pl.9,29

- 4450 *cybele* (F., 1775). (DHM/1256). Det. D. H. Miller, 1991. (great spangled fritillary, argynne cybèle, m., Fr.) O.&M. Pl.9,29

Subfamily MELITAEINAE

Genus Chlosyne Butler, 1870

- 4491 *harrisii* (Scudder, 1862). (DHM/1392) Det. D. H. Miller, 1991. (Harris' checkerspot, damier de Harris, m., Fr.) O.&M. Pl.28
- 4490 *nycteis* (Doubleday, 1847). (1336) Det. J. D. Hedbor, 1989, ver D. F. Schweitzer, 1993. (silvery checkerspot or crescent spot, damier argenté, m., Fr.) O.&M. Pl.9,28

Genus Euphydryas Scudder, 1872

- 4516 *phaeton* (Drury, 1773). (DHM/1240) Det. D. H. Miller, 1991. (Baltimore, Baltimore checkerspot, baltimore, m., Fr.) O.&M. Pl.9,31

Genus Phyciodes Hübner, 1819

- 4481 *tharos* (Drury, 1773). (DHM/1013) Det. W. J. Kiel, 1991. (pearl crescent, croissant perlé, m., Fr.) O.&M. Pl.9,31
- 4481.2 *selenis* (Kby., 1837). (DHM/1458) Det. D. H. Miller, 1991 (northern pearl crescent, northern crescent) O.&M. Pl.31

Subfamily LIMENITIDINAE

Genus Limenitis Fabricius, 1807

- 4523 *archippus* (Cram., 1776). (DHM/1007) Det. D. H. Miller, 1991. (viceroy*, mimic, mimique, m., Fr., vice-roi, m., Fr.) O.&M. Pl.3,10,33 as *Limenitis archippus*
- 4522 *arthemis arthemis* (Drury, 1773). (DHM/1008) Det. D. H. Miller, 1990. (white admiral, banded purple, amiral, m., Fr.) O.&M. Pl.33 as *L. a. arthemis*
- 4522b *arthemis astyanax* (F., 1775). (DHM) Det. D. H. Miller, 1991. (red-spotted purple) O.&M. Pl.10,33 as *L. a. astyanax*

Subfamily SATYRINAE (the satyrs and wood nymphs; satyres, m., Fr.)

Genus Coenonympha Hübner, 1819 (heath butterflies)

- 4583.. *tullia inornata* Edw., 1861. (DHM/1026) Det. D. H. Miller, 1991. (inornate, common or plain ringlet, satyre fauve, m., Fr.) O.&M. Pl.36

Genus Cercyonis Scudder, 1875

- 4587c *pegala nephele* (Kby., 1837). (DHM/1012) Det. D. H. Miller, 1991. (the wood nymph, grayling, satyre des prés, m., Fr.) O.&M. Pl.37

Genus Enodia Hübner, 1819

- 4568.1 *anthon* A. H. Clark, 1936. (DHM/1010) Det. D. H. Miller, 1991. (northern pearly eye, satyre perlé, m., Fr.) O.&M. Pl.11,36

Genus Megisto Hübner, 1819

- 4578 *cymela* (Cram., 1777). (DHM/1011) Det. D. H. Miller, 1991. (little wood satyr, petit satyre des bois, m., Fr.) O.&M. Pl.11,36

Genus Oeneis Hübner, 1819

- 4611 *jutta* (Hbn., 1805-6). (DHM/1386) Det. D. H. Miller, 1987. (jutta arctic, nordique des tourbières, m., Fr.) O.&M. Pl.38

Genus Satyrodes Scudder, 1875

- 4569 *appalachia* (R. Chermock, 1947). (DHM/1391) Det. D. H. Miller, 1991, ver. W. J. Kiel, 1991. (Appalachian eyed brown or Appalachian brown) O.&M. Pl.36
- 4568.3 *eurydice* (Johansson, 1763). (DHM/1245) Det. D. H. Miller, 1991. (eyed brown, satyre ocellé, m., Fr.) O.&M. Pl.36

Subfamily DANAINAE (monarchs)

Genus Danaus Kluk, 1802

- 4614 *plexippus* (L., 1758). (DHM/612) Det. D. H. Miller, 1991. (monarch*, wanderer, milkweed butterfly, monarque, m., Fr.) O.&M. Pl.3,4,36

Superfamily ZYGAENOIDEA

Family ZYGAENIDAE (smoky moths and burnets)

Genus Harrisina Packard, 1864

- 4624 *americana* (Guér., 1829). (Field) Det. M. Sabourin, 1993. (grapeleaf skeletonizer moth) C. Pl.57(8)

Family MEGALOPYGIDAE (the flannel moths)

Genus Lagoa Harris, 1841

- 4644 *crispata* (Pack., 1864). (GRN) Imm. Det G. R. Nielsen. (crinkled flannel moth*, blackwaved flannel moth) C. Pl.56(9)

Family LIMACODIDAE (slug caterpillar moths)

Genus Apoda Haworth, 1809

- 4669 *biguttata* (Pack., 1864). (429) Det. J. R. Grehan, 1990. C. Pl.55(25)
- 4667 *y-inversum* (Pack., 1864). (650) Det. J. R. Grehan, 1991. C. Pl.55(21)

Genus Euclea Hübner, 1819

- 4697 *delphinii* (Bdv., 1832). (257) Det. J. R. Grehan, 1990. (spiny oak-slug, limacode épineuse, f., Fr.) C. Pl.55(10,14)

Genus Lithacodes Packard 1864

- 4665 *fasciola* (H.-S., 1854). (1132) Det. J. R. Grehan, 1990. C. Pl.55(23)

Genus Packardia Grote & Robinson, 1867

- 4661 *elegans* (Pack., 1864). (564) Det. T. McCabe, 1990.
- 4659 *geminata* (Pack., 1864). (186) Det. J. R. Grehan, 1990. C. Pl.55(22)

Genus Phobetron Hübner, 1825

- 4677 *pithecium* (J. E. Smith, 1797). (1383) Det M Sabourin 1992. (hag moth*, monkey slug, sorcière, f., Fr.) C. Pl.1(2);56(7,10)

Genus Sibine Herrich-Schäffer, 1855

- 4700 *stimulea* (Clem., 1860). (Field) Imm. Det G. R. Nielsen. (saddleback caterpillar*, sibine urticante, f., Fr.) C. Pl.1(8);56(8)

Genus Tortricidia Packard, 1864

- 4654 *flexuosa* (Grt., 1880). (714) Det. M. Sabourin, 1991. (slug caterpillar) C. Pl.55(19)
- 4653 *pallida* (H.-S., 1854). (802) Det. J. E. Rawlins, 1991.
- 4652 *testacea* Pack., 1864. (187) Det. J. R. Grehan, 1990. (slug caterpillar) C. Pl.55(24)

Superfamily PYRALOIDEA

Family PYRALIDAE

(pyralid moths; waxworms, webworms, cerealworms, & driedfruit worms;
pyrales, f., Fr., pyrales des prés, f., Fr.)

(Series CRAMBIFORMES)

Subfamily SCOPARIINAE

Genus *Eudonia* Billberg, 1820

4737 *lugubralis* (Wik., 1866). (MS) Det. M. Sabourin, 1993. Mn. 13.1 Pl.4(6-12)

Genus *Scoparia* Haworth, 1812

- 4719 *basalis* Wik., 1866. (844) Det. A. Mutuura, 1991. Mn. 13.1 Pl.2(38-41),B(10),G(10)
4716 *biplagiata* Wik., 1866. (1139) Det. M. Sabourin, 1993. Mn. 13.1 Pl.2(19-24),B(8),G(7)
4718 *cinereomedia* Dyar, 1904. (563) Det. J. R. Grehan, 1991. Mn. 13.1 Pl.2(33-37),G(9)
4717 *penumbralis* Dyar, 1906. (1198) Det. M. Sabourin, 1993. Mn. 13.1 Pl.2(30-32),B(9), G(8)

Subfamily NYMPHULINAE

Genus *Munroessa* Lange, 1956

- 4748 *icciusalis* (Wik., 1859). (222) Det. J. R. Grehan & ver. A. Mutuura, 1991. (Potamogeton casebearer)
C. Pl.57(25), Mn. 13.1 Pl.4(38-42),C(2),H(3)
4751 *gyralis* (Hulst, 1886). (1030) Det. W. J. Kiel, 1992. C. Pl.57(26), Mn. 13.1 Pl.5(12-22)

Genus *Parapoynx* Hübner, 1825

- 4764a *allionealis itealis* (Wik., 1859). (1206) Det. J. R. Grehan, 1993 (bladderwort casemaker) Mn. 13.1
Pl.6(16,17)
4761 *badiusalis* (Wik., 1859). (118) Det. J. R. Grehan, 1990, ver. A. Mutuura, 1991. Mn. 13.1
Pl.6(18,19)
4759 *maculalis* (Clem., 1860). (1417) Det. M. Sabourin, 1994. (waterlily casebearer) Mn. 13.1 Pl.6(5-7,9,10)
4760 *obscuralis* (Grt., 1881). (820) Det. A. Mutuura, 1991. C. Pl.57(29), Mn. 13.1 Pl.6(13,14)

Genus *Petrophila* Guiding, 1830

4777 *fulicalis* (Clem., 1860). (822) Det. M. Sabourin, 1993. Mn. 13.1 Pl.7(5,6) as *Paragyraetis fulicalis*

Genus *Synclita* Lederer, 1863

4755 *obliteralis* (Wik., 1859). (846) Det. A. Mutuura, 1991. (waterlily leafcutter*) C. Pl.57(27),
Mn. 13.1 Pl.5(28-33),C(6)

Subfamily ODONTIINAE

Genus *Metrea* Grote, 1882

4789 *ostreonalis* Grt., 1882. (DHM) Det. W. J. Kiel, 1994.

Subfamily GLAPHYRIINAE

Genus *Dicymolomia* Zeller, 1872

4889 *julianalis* (Wik., 1859). (1165) Det. M. Sabourin, 1993. C. Pl.57(6), Mn. 13.1 Pl.12(27-31)

Genus *Xanthophysa* Munroe, 1964

4879 *psychialis* (Hulst, 1886). (1384) Det. M. Sabourin, 1992. Mn. 13.1 Pl.12(10-12)

Subfamily EVERGESTINAE

Genus *Evergestis* Hübner, 1825

- 4897 *pallidata* (Hufn., 1767). (260) Det. J. R. Grehan, 1990. (purple-backed cabbageworm*, pyrale
pourpre du cho.f., Fr.) C. Pl.57(13), H. Pl.47(45) as *E. straminealis*, Mn. 13.1 Pl.1(56,57)
4901 *unimacula* (G. & R., 1867). (1378) Det. B. Landry, 1994. C. Pl.58(3), H. Pl.47(56) as *Pyrausta*
unimacula, Mn. 13.1 Pl.1(64,65)

Subfamily PYRAUSTINAE

Genus *Achyra* Guenée, 1849

4975 *rantalalis* (Gn., 1854). (827) Det. A. Mutuura, 1991. (garden webworm*, tisseuse des jardins, f. Fr.)
C. Pl.56(23), Mn. 13.2a Pl.3(20-25),E(4), Mn.13.2b Pl.P(4)

Genus *Anageshna* Munroe, 1956

5176 *primordialis* (Dyar, 1907). (821) Det. M. Sabourin & A. Mutuura, 1991.

Genus *Anania* Hübner, 1823

4958a *funebri glomerata* (Wik., 1859). (428) Det. J. R. Grehan, 1990. C. Pl.58(2), H. Pl.47(50) as *Pyrausta*
funebri, Mn. 13.2a Pl.1(47-52),C(5), Mn. 13.2b Pl.N(3)

Genus *Blepharomastix*

5182 *ranalis* (Gn., 1854). (1450) Det. M. Sabourin & J. R. Grehan, 1994.

Genus *Crocidophora* Lederer, 1863

4944 *serratissimalis* Zell., 1872. (MS) Det. M. Sabourin, 1992. Mn. 13.2a Pl.2(10-12),B(1), Mn. 13.2b Pl.L(9)
4945 *tuberculata* Led., 1863. (261) Det. J. R. Grehan, 1990. C. Pl.57(10), Mn.13.2a Pl.2(4-6)

Genus *Desmia* Westwood, 1831

5159 *funeralis* (Hbn., 1796). (279) Det. J. R. Grehan, 1990. (grape leafroller*, plieuse de la vigne, f., Fr.)
C. Pl.56(11), H. Pl.47(37)

Genus *Diacme* Warren, 1892

5143 *adipaloides* (G. & R., 1867). (450) Det. J. R. Grehan, 1990.

Genus *Eurrhyncha* Hübner, 1825

4952 *hortulata* (L., 1758). (263) Det. J. R. Grehan, 1991. (small magpie moth, nettle micromoth) Mn. 13.2a
Pl.1(72,73),B(7),M(5)

Genus *Fumibotys* Munroe, 1976

4950 *fumalis* (Gn., 1854). (1162) Det. J. R. Grehan, 1993. H. Pl.47(55) as *Pyrausta fumalis*, Mn. 13.2a
Pl.1(37-41),B(2), Mn. 13.2b Pl.P(9)

Genus *Hahncappia* Munroe, 1976

4905 *neobliteralis* (Capps, 1967). (USNM) Det. Capps, 1967 (type specimen). Mn. 13.2a Pl.3(82),D(1), Mn.
13.2b Pl.N(8)

Genus *Herpetogramma* Lederer, 1863

5276 *abdominalis* (Zell., 1872). (315) Det. M. Sabourin, 1992.
5280 *aeglealis* (Wik., 1859). (1355) Det. M. Sabourin, 1992.
5276 *pertextalis* (Led., 1863). (GRN) Det. M. Sabourin, 1992. (leafroller) H. Pl.47(54) as *Pyrausta perertextalis*

Genus *Hymenia* Hübner, 1825

5100 *perspectalis* (Hbn., 1796). (824) Det. A. Mutuura, 1991. (spotted beet webworm) C. Pl.56(16)

Genus *Loxostege* Hübner, 1825

5010 *commixtalis* (Wik., 1866). (1203) Det. J. R. Grehan, 1993. Mn. 13.2a Pl.4(13-19), Mn. 13.2b
Pl.J(1),S(3)

- 5004 *sticticalis* (L., 1761). (540) Det. J. R. Grehan, 1991. (beet webworm*, tisseuse de la betterave, f., Fr.) Mn. 13.2a Pl.4(1-5),H(5), Mn. 13.2b Pl.Q(10)

Genus *Loxostegopsis* Dyar, 1917

- 5117 *merrickalis* (B. & McD., 1918). (845) Det. A. Mutuura, 1991.

Genus *Lygropia* Lederer, 1863

- 5250 *rivulalis* Hamp., 1898. (823) Det. A. Mutuura, 1991.

Genus *Mutuuraia* Munroe, 1976

- 4957 *mysippusalis* (Wik., 1859) (826) Det. A. Mutuura, 1991. Mn. 13.2a Pl.1(53-59),C(4), Mn. 13.2b Pl.N(2)

Genus *Nascia* Curtis, 1835

- 4937 *acutella* (Wik., 1866). (828) Det. M. Sabourin & A. Mutuura, 1991. Mn. 13.2a Pl.1(67-71),A(3), Mn. 13.2b Pl.L(3)

Genus *Nomophila* Hübner, 1825

- 5156 *nearctica* Mun., 1973. (511) Det. J. R. Grehan, 1991. (celery webworm, lucerne moth, pyrale du céleri, m., Fr.) C. Pl.56(20)

Genus *Ostrinia* Hübner, 1825

- 4949 *nubilalis* (Hbn., 1796). (514) Det. J. R. Grehan, 1990. (European corn borer*, pyrale du maïs, f., Fr.) C. Pl.57(20,21), Mn. 13.2a Pl.1(33-36),B(5), Mn. 13.2b Pl.M(3)

Genus *Palpita* Hübner, 1825

- 5226 *magniferalis* (Wik., 1861). (113) Det. J. R. Grehan, 1990. (ash leafroller) C. Pl.58(1)

Genus *Pantographa* Lederer, 1863

- 5241 *limata* (G. & R., 1867). (350) Det. J. R. Grehan, 1990. (basswood leafroller*, enrouleuse du tilleul, f., Fr.) C. Pl.57(14), H. Pl.47(38)

Genus *Perispasta* Zeller, 1875

- 4951 *caeculalis* Zell., 1875. (811) Det. J. R. Grehan, 1991. C. Pl.56(21,22), Mn. 13.2b Pl.5(39,40),B(6),M(4)

Genus *Phlyctaenia* Hübner, 1825

- 4953a *coronata tertialis* (Gn., 1854). (825) Det. A. Mutuura, 1991. (elderberry leaf-tier) C. Pl.56(24), H. Pl.47(47), Mn. 13.2a Pl.2(15-27),B(8), Mn. 13.2b Pl.M(6)

Genus *Pyrausta* Schrank, 1802

- 5071 *acrionalis* (Wik., 1859). (975) Det. M. Sabourin, 1992. C. Pl.57(22), Mn. 13.2b Pl.6(13,14)
 5040 *bicoloralis* (Gn., 1854). (262) Det. J. R. Grehan, 1991. C. Pl.57(17), H. Pl.47(40) as *Cindaphia bicoloralis*, Mn 13.2b Pl.5(26-30)
 5058 *orphisalis* Wik., 1859. (627) Det. J. R. Grehan, 1991. H. Pl.47(57) as *P. ochosalis*, Mn. 13.2b Pl.5(5-10)
 5060 *subsequalis* (Gn., 1854). (950) Det. J. D. Hedbor, 1991. (snout moth) C. Pl.57(19), H. Pl.47(41) as *P. inaequalis*, Mn. 13.2b Pl.5(18,22)
 5060a *subsequalis borealis* Pack., 1867. (GRN) Det. M. Sabourin, 1993. Mn. 13.2b Pl.5(19-21,23-25);9(13,14,17)

Genus *Sitochroa* Hübner, 1825

- 4987 *chortalis* (Grt., 1873). (985) Det. M. Sabourin, 1992. Mn. 13.2a Pl.3(47-53),F(5)

Genus *Spoladea* Guenée, 1854

- 5170 *recurvalis* (F., 1794). (956) Det. M. Sabourin, 1990. (Hawaiian beet webworm*) C. Pl.56(15), H. Pl.47(28) as *Zinckenia fascialis*

Genus *Udea* Guenée, 1845

- 5086 *inquinatalis* (Zell., 1846). (DHM) Det. M. Sabourin, 1994.
 5079 *rubigalis* (Gn., 1854). (1140) Det. A. Mutuura, 1991. (celery leaf-tier*, greenhouse leaf-tier*, lieuse des serres, ou lieuse du céleri, f., Fr.) C. Pl.56(25)

Subfamily SCHOENOBIIINAE

Genus *Acentria* Stephens, 1829

- 5299 *nivea* (Olivier, 1791). (1221) Det. J. R. Grehan, 1993. (aquatic or false-caddis, waterveneer moth)

Genus *Donacaula* Meyrick, 1890

- 5317 *aquilella* (Clem., 1860). (MS) Det. J. R. Grehan, 1993.
 5319 *longirostrella* (Clem., 1860). (DLW) Det. D. L. Wagner, 1990.
 5316 *melinella* (Clem., 1860). (847) Det. A. Mutuura, 1991.
 5315 *tripunctella* (Rob., 1870). (848) Det. A. Mutuura, 1991.

Subfamily CRAMBINAE

Genus *Acigona* Hübner, 1825

- 5474 *comptulatalis* (Hulst, 1886). (1255) Det. J. R. Grehan, 1993.

Genus *Agriphila* Hübner, 1825

- 5399 *ruricolella* (Zell., 1863). (691) Det. B. Landry, 1991.
 5403 *vulgivagella* (Clem., 1860). (333) Det. J. R. Grehan, 1990. (vagabond crambus*, pyrale vagabonde, f., Fr.) C. Pl.58(14)

Genus *Arequipa* Walker, 1863

- 5392 *turbatella* Wik., 1863. (MS) Det. B. Landry, 1992.

Genus *Catoptria* Hübner, 1825

- 5408 *latiradiella* (Wik., 1863). (954) Det. B. Landry, 1991.

Genus *Chilo* Zinck., 1817

- 5470 *plejadellus* Zinck., 1821. (1403) Det., B. Landry, 1994.

Genus *Chrysoteuchia* Hübner, 1825

- 5391 *topiaria* (Zell., 1866). (239) Det. J. R. Grehan, 1990. (cranberry girdler*, subterranean webworm)

Genus *Crambus* Fabricius, 1798 (webworms, lawn moths)

- 5362 *agitellus* Clem., 1860. (224) Det. B. Landry, 1991. C. Pl.58(12)
 5361 *albellus* Clem., 1860. (578) Det. J. R. Grehan, 1991.
 5341a *alienellus labradoriensis* Christoph, 1858. (DHM) Det. W. J. Kiel, 1994.
 5341b *dissectus* Grt., 1880. (1393) Det. B. Landry, 1994.
 5342 *bidens* Zell., 1872. (955) Det. B. Landry, 1991.
 5365 *girardellus* Clem., 1860. (470) Det. J. R. Grehan, 1991.
 5378 *laqueatellus* Clem., 1860. (683) Det. B. Landry, 1991. (paneled crambus) C. Pl.58(10)
 5357 *leachellus* (Zinck., 1818). (1043) Det. M. Sabourin, 1992. (Leach's crambus)
 5379 *luteolellus* Clem., 1860. (272) Det. D. L. Wagner, 1990. (yellow crambus)
 5343 *perlellus* (Scop., 1763). (684) Det. B. Landry, 1991.
 5355 *praefectellus* (Zinck., 1821). (193) Det. J. R. Grehan, 1991. (silver-striped webworm)
 5363 *saltuellus* Zell., 1863. (690) Det. B. Landry, 1991.
 5344 *unistriatellus* Pack., 1867. (1173) Det. B. Landry, 1993.
 5349 *youngellus* Kft., 1908. (1308) Det. B. Landry, 1993.
 5380 *zeellus* Fern., 1885. (GRN) Det. M. Sabourin, 1992.

Genus *Fissicrambus* Bleszynski, 1963

- 5435 *mutabilis* (Clem., 1860). (681) Det. B. Landry, 1991. (striped sod webworm)

Genus *Microcrambus* Bleszynski, 19635420 *elegans* (Clem., 1860). (565) Det. J. R. Grehan, 1991. (pretty crambus, webworm) C. Pl.64(5)Genus *Parapediasia* Bleszynski, 19665451 *teterrella* (Zinck., 1821). (1290) Det. B. Landry, 1993.Genus *Pediasia* Hübner, 18255413 *trisecta* (Wik., 1856). (258) Det. J. R. Grehan, 1991. (sod webworm, larger sod webworm) C. Pl.58(11)Genus *Raphiptera* Hampson, 18965393 *argillaceella* (Pack., 1867). (1078) Det. J. R. Grehan, 1992.Genus *Thaumtops* Morrison, 18745439 *pexella* (Zell., 1863). (682) Det. B. Landry, 1991.5439a *pexella gibsonella* Kft., 1908. (DHM) Det. J. W. Kiel, 1991.Genus *Thopœtis* Hübner, 18185473 *forbesellus* (Fern., 1896). (1196) Det. B. Landry, 1992.Genus *Urola* Walker, 18635464 *nivalis* (Drury, 1773). (308) Det. J. R. Grehan, 1991. C. Pl.48(20)Genus *Vaxi* Bleszynski, 19625465 *auratella* (Clem., 1860). (977) Det. J. R. Grehan, 1991. C. Pl.59(7)5466 *critica* (Fbs., 1920). (533) Det. B. Landry, 1991.

(Series PYRALIFORMES)

Subfamily PYRALINAE

Genus *Aglossa* Latreille, 17965518 *cuprina* Zell., 1872. (127) Det. J. R. Grehan, 1991. (grease moth) C. Pl.58(6)5516 *pinguinalis* (L., 1758). (973) Det. M. Sabourin, 1992.Genus *Herculia* Walker, 18595526 *intermedialis* (Wik., 1862). (843) Det. A. Mutuura, 1991. (conifer micro moth) C. Pl.59(8)5533 *olinalis* (Gn., 1854). (190) Det. J. R. Grehan, 1990. C. Pl.59(4)Genus *Hypsopygia* Hübner, 18255524 *costalis* (F., 1775). (259) Det. J. R. Grehan, 1990. (clover hayworm*, pyrale du tôle, f., Fr.) C. Pl.59(3), H. Pl.47(59)Genus *Pyrallis* Linnaeus, 17585511 *costiferalis* Wik., 1866. (1141) Det. B. Landry, 1993.5512 *disciferalis* Dyar, 1908. (1142) Det. B. Landry, 1993.5510 *farinalis* L., 1758. (393) Det. J. R. Grehan, 1990. (meal moth*, pyrale de la farine, f., Fr.) C. Pl.59(1), H. Pl.47(53)

Subfamily CHRYSAUGINAE

Genus *Condyloomia* Grote, 18735571 *participalis* Grt., 1873. (1116) Det. M. Sabourin, 1993. C. Pl.59(2)Genus *Galasa* Walker, 18865552 *nigrinodis* (Zell., 1873). (839) Det. J. R. Grehan, 1991. C. Pl.59(6)Genus *Tosale* Walker, 18635556 *oviplagalis* (Wik., 1866). (841) Det. A. Mutuura, 1991. C. Pl.58(7,9)

Subfamily EPIPASCHIINAE

Genus *Oneida* Hulst, 18895588 *lunulalis* (Hulst, 1887). (89) Det. J. R. Grehan, 1990.Genus *Pococera* Zeller, 18485606 *asperatella* (Clem., 1860). (128) Det. J. R. Grehan, 1990. (maple webworm, pyrale-tisseuse de l'érable, f., Fr.) C. Pl.58(15)5605 *aplastella* (Hulst, 1888). (MS) Det. M. Sabourin, 1993. (aspen webworm, pyrale-tisseuse du peuplier, f., Fr.)5597 *melanogrammos* (Zell., 1872). (294) Det. J. R. Grehan, 1990. (sweetgum webworm)5595 *robustella* (Zell., 1848). (Field) Imm. Det. G. R. Nielsen, 1991. (pine webworm*, chenille tisseuse du pin, f., Fr.)

Subfamily GALLERIINAE

Genus *Achroia* Hübner, 18195623 *grisella* (F., 1794). (620) Det. J. R. Grehan 1991. (lesser wax moth*)Genus *Aphomia* Hübner, 1825 (bee moths)5629 *sociella* (L., 1758). (957) Det. A. Mutuura, 1991.5630 *terrenella* Zell., 1848. (1157) Det. B. Landry, 1993.Genus *Galleria* Fabricius, 17985622 *mellonella* (L., 1758). (604) Det. J. R. Grehan, 1991. (greater wax moth*, fausse-teigne de la cire, f., Fr.) C. Pl.58(13,16)

Subfamily PHYCITINAE

Genus *Acrobasis* Zeller, 18395673 *angusella* Grt., 1880. (838) Det. A. Mutuura, 1991. N. 15.2 Pl.4(35-37)5688 *betulella* Hulst, 1890. (Field) Imm. Det. G. R. Nielsen 1990. (birch tubemaker*, pyrale tubicole du bouleau, f., Fr.) H. Pl.48(15), N. 15.2 Pl.6(10-17), Fig.14(f)5664 *caryae* Grt., 1881. (837) Det. A. Mutuura, 1991. (pecan nut casebearer*, pyrale tubicole du caryer, f., Fr.) N. 15.2 Pl.3(29-34),E(1)5691 *comptoniella* Hulst, 1890. (109) Det. M. Sabourin, 1992. (sweetfern leaf casebearer*, pyrale tubicole de la comptonie, f. Fr.) N. 15.2 Pl.5(31-37), Fig.14(c)5674 *demotella* Grt., 1881. (835) Det. A. Mutuura, 1991. (walnut shoot moth*) N. 15.2 Pl.4(30-34),E(4)5651 *indigenella* (Zell., 1848). (833) Det. A. Mutuura, 1991. (leaf crumpler*, thorn leaf crumpler) H. Fig.228 as *Mineola indigenella*, N. 15.2 Pl.2(18-33)5661 *juglandis* (LeBaron, 1872). (GRN) Det. M. Sabourin, 1993. (pecan leaf casebearer*, pyrale du noyer, f., Fr.) H. Fig.227 as *Mineola juglandis*, N. 15.2 Pl.5(1-10), Fig.13(d)5677 *normella* Dyar, 1908. (1187) Det. M. Sabourin, 1993. N. 15.2 Pl.6(36-40), Fig.14(h)5659 *palliolella* Rag., 1887. (539) Det. J. R. Grehan, 1990. N. 15.2 Pl.4(40-44), Fig.13(b)5655 *tricolorella* Grt., 1878. (834) Det. A. Mutuura, 1991. (pruneworm, pyrale du cerisier, f. Fr.) N. 15.2 Pl.2(34-45),3(1-6), Fig.7(a)5653 *vaccinii* Riley, 1884. (836) Det. A. Mutuura, 1991. (cranberry fruitworm*, pyrale des atocas, f., Fr.) N. 15.2 Pl.2(1-10)Genus *Dioryctria* Zeller, 18465641 *abietivorella* (Grt., 1878). (GRN) Det. M. Sabourin, 1992. (fir, pine, and spruce coneworm, pyrale des cônes du sapin, f., Fr.)5643 *reniculelloides* Mutuura & Mun., 1973. (1379) Det. J. R. Grehan, 1994. (spruce coneworm*, pyrale des cônes de l'épinette, f., Fr.)5652 *zimmermani* (Grt., 1877). (840) Det. G. R. Nielsen, ver. A. Mutuura, 1991. (Zimmerman pine moth*,

pitch dropworm, pyrale des pousses du pin, f., Fr.)

- Genus *Ephestia* Guenée, 1845
 6021 *elutella* (Hbn., 1796). (GRN) Det. M. Sabourin, 1992. (tobacco moth*, pyrale du tabac, f. Fr.) N. 15.3 Pl.4(35-37);Fig.56,57
 6020 *kuehniella* (Zell., 1879). (102) Det. J. R. Grehan, 1990. (Mediterranean flour moth*, pyrale méditerranéenne de la farine, f. Fr.) N. 15.3 Pl.1(58-60);4(38,39);Fig.58
- Genus *Eulogia* Heinrich, 1956
 5999 *ochrifrontella* (Zell., 1876). (295) Det. J. R. Grehan, 1990. N. 15.3 Pl.2(9-13);Fig.28
- Genus *Euzophera* Zeller, 1867
 5995 ?*semifuneralis* (Wlk., 1863). (1381) M. Sabourin & J. R. Grehan, 1994. (American plum borer*) N. 15.3 Pl.1(30-33);Fig.23(b,d)
- Genus *Immyrta* Dyar, 1906
 5766 *nigrovittella* Dyar, 1906. (MS) Det. M. Sabourin, 1993
- Genus *Meroptera* Grote, 1882
 5787 ?*pravella* (Grt., 1878). (MS) Det. M. Sabourin, 1993. (aspen leafroller, lesser aspen webworm, enrouleuse du tremble, f., Fr.)
- Genus *Moodna* Hulst, 1890
 6005 *ostrinella* (Clem., 1860). (978) Det. A. Mutuura, 1991. N. 15.3 Pl.2(41-44);Fig.35
- Genus *Nephoterix* Hübner, 1825
 5799 *basilaris* Zell., 1872. (GRN) Det. J. R. Grehan, 1994.
 5794 *vetustella* (Dyar, 1904). (830) Det. A. Mutuura, 1991.
 5797 *virgatella* (Clem., 1860). (829) Det. A. Mutuura, 1991. (black locust leafroller, pyrale du févier, f., Fr.)
- Genus *Oreana* Hulst, 1888
 5767 *unicolorella* (Hulst, 1887). (842) Det. A. Mutuura, 1991. (laddermarked caterpillar)
- Genus *Ortholepis* Ragonot, 1887
 5783 *pasadamia* (Dyar, 1917). (832) Det. A. Mutuura, 1991. (striped birch pyralid, pyrale à bandes jaunes, f., Fr.)
- Genus *Phycitodes* Hampson, 1917
 5946a *albatella mucidella* (Rag., 1887). (MS) Det. M. Sabourin, 1993.
- Genus *Plodia* Guenée, 1845
 6019 *interpunctella* (Hbn., 1810-1813). (35) Det. J. R. Grehan, 1990. (Indian meal moth*, pyrale Indienne de la farine, f., Fr.) C. Pl.58(20), N. 15.3 Pl.4(25-34);Fig.53-55
- Genus *Pyla* Grote, 1882
 5829 *fusca* (Haw., 1828). (831) Det. A. Mutuura, 1991.
 58.. sp. (GRN) Det. M. Sabourin, 1992.
- Genus *Salebriaria* Heinrich, 1956
 5773 *engeli* (Dyar, 1906). (1188) Det. M. Sabourin, 1993. N. front cover;Fig.16-19;Pl.1,2,3(a-d),12,30
- Genus *Vitula* Ragonot, 1887
 6007 *edmandsii* (Pack., 1864). (180) Det. J. R. Grehan, 1990. (driedfruit moth*) N. 15.3 Pl.3(15-18);Fig.42
- Genus *Zophodia* Hübner, 1825
 5968 *convolutella* (Hbn., 1796). (972) Det. M. Sabourin, 1992. (gooseberry fruitworm*, pyrale des groseilles, f., Fr.)

Subfamily PEORIINAE

- Genus *Peoria* Ragonot, 1887
 6053 *approximella* (Wlk., 1866). (327) Det. J. R. Grehan, 1990. C. Pl.59(9)

Family THYRIDIDAE (window-winged moths, gallworms)

Subfamily THYRIDINAE

- Genus *Thyris* Laspeyres, 1803
 6076 *maculata* Harr., 1839. (351) Det. J. R. Grehan, 1991. (spotted thyris) C. Pl.57(2)

Superfamily PTEROPHOIDEA

Family PTEROPHORIDAE (plume moths, ptérophores, m., Fr.)

Subfamily PLATYPTILIINAE

- Genus *Amblyptilia* Hübner, 1825
 6118 *pica* (Wlsm., 1880). (853) Det. B. Landry, 1991. (geranium plume moth)
- Genus *Emmelina* Tutt, 1905
 6234 *monodactyla* (L., 1758). (1311) Det. B. Landry, 1993. C. Pl.58(19)
- Genus *Geina* Tutt, 1907
 6092.1 *sheppardi* B. Landry, 1989. (440) Det. B. Landry, 1991.
 6092 *tenuidactyla* (Fitch, 1854). (442) Det. B. Landry, 1991. (spruce plume moth)

Genus *Platyptilia* Hübner, 1825

- 6109 *carduidactyla* (Riley, 1869). (1356) Det. B. Landry, 1993. C. Pl.58(21)
 6111 ?*comstocki* Lange, 1939. (1143) Det. B. Landry, 1993.
 6107 *pallidactyla* (Haw., 1811). (579) Det. J. R. Grehan, 1991.

Genus *Sphenarches* Meyrick, 1886

- 6090 *ontario* (McD., 1927). (439) Det. B. Landry, 1991.

Genus *Trichoptilus* Walsingham, 1880

- 6102 *lobidactylus* (Fitch, 1854). (699) Det. B. Landry, 1991.

Subfamily PTEROPHORINAE

Genus *Adaina* Tutt, 1905

- 6160 *ambrosiae* (Murt., 1880). (1309) Det. B. Landry, 1993.

Genus *Oidaematophorus* Wallengren, 1862

- 6204 *elliottii* (Fern., 1893). (854) Det. B. Landry, 1991.
 6168 *eupatorii* (Fern., 1891). (CTP) Det. M. Sabourin, ver. B. Landry, 1991. (ptérophore de l'eupatoire, m., Fr.)
 6186 *inquinatus* Zell., 1873. (231) Det. B. Landry, 1994.
 6170 *phaceliae* McD. 1938. (443) Det. B. Landry, 1991.
 6205 *stramineus* (Wlsm., 1880). (1310) Det. B. Landry, 1993.
 62.. sp., *lacteodactylus* (Cham., 1873) complex 6213. (441) Det. B. Landry, 1991.

Superfamily DREPANOIDEA

Family THYATIRIDAE (thyatirid moths)

Subfamily THYATIRINAE

Genus *Euthyatira* J. B. Smith, 1891
6240 *pudens* (Gn., 1852). (328) Det. J. R. Grehan, 1991. (dogwood thyatirid, thyatire à taches roses, m., Fr.) C. Pl.45(12,13)

Genus *Habrosyne* Hübner, 1821
6235 *scripta* (Gosse, 1840). (141) Det. J. R. Grehan, 1990. (lettered habrosyne, false owlet moth, habrosyne rosée, f., Fr.) C. Pl.45(14)

Genus *Pseudothyatira* Grote, 1865
6237 *cymatophoroides* (Gn., 1852). (291) Det. J. R. Grehan, 1990. (tufted thyatirid, birch and alder cat., thyatire à taches noires, m., Fr.) C. Pl.45(11,15)

Family DREPANIDAE (hooktip moths)

Subfamily DREPANINAE

Genus *Drepana* Schrank, 1802
6251 *arcuata* Wlk., 1855. (10) Det. J. R. Grehan, 1989. (arched hooktip, masked birch cat., faucille lignée, f., Fr.) C. Pl.46(2)
6252 *bilineata* (Pack., 1864). (171) Det. J. R. Grehan, 1990. (two-lined hooktip, warty birch cat., faucille dentelée, f., Fr.) C. Pl.46(3)

Genus *Eudeilinia* Packard, 1876
6253 *herminiata* (Gn., 1857). (170) Det. J. R. Grehan, 1990. (northern eudeilinia, dogwood cat.) C. Pl.48(21)

Subfamily ORETINAE

Genus *Oreta* Walker, 1855
6255 *rosea* (Wlk., 1855). (217) Det. J. R. Grehan, 1990. (rose hooktip, faucille rosée, f., Fr.) C. Pl.46(1)

Superfamily GEOMETROIDEA

Family GEOMETRIDAE (loopers, inchworms, measuringworms, and cankerworms; arpeuteuses, f., Fr., géomètres, m., Fr., and phalènes, f., Fr.)

Subfamily ARCHIEARINAE

Genus *Archiearis* Hübner, 1823
6256 *infans* (Mösch., 1862). (527) Det. J. R. Grehan, 1990. (firstborn geometer, the infant, géomètre printanier, m., Fr.) C. Pl.46(5)

Subfamily OENOCHROMINAE

Genus *Alsophila* Hübner, 1825
6258 *pometaria* (Harr., 1841). (1166) Det. M. Sabourin, 1991. (fall cankerworm*, arpeuteuse d'automne, f., Fr.) C. Pl.46(8);47(8)

Subfamily ENNOMINAE

Genus *Aethalura* McDunnough, 1920
6570 *intertexta* (Wlk., 1860). (567) Det. J. R. Grehan, 1991. (four-barred gray) C. Pl.52(19)

Genus *Anacamptodes* McDunnough, 1920
6583 *ephyraria* (Wlk., 1860). (921) Det. K. Bolte, 1992. (pale-winged gray, arpeuteuse à taches triangulaires, f., Fr.) C. Pl.52(16)
6584 *humaria* (Gn., 1857). (619) Det. J. R. Grehan, 1991. (small purplish gray) C. Pl.52(18)
6582 *vellivolata* (Hulst, 1881). (680) Det. J. R. Grehan, 1990. (large purplish gray) C. Pl.52(17)

Genus *Anagoga* Hübner, 1823
6836 *occiduaria* (Wlk., 1861). (77) Det. J. R. Grehan, 1990. (the barred umber, American barred umber) C. Pl.53(8)

Genus *Anavitrinella* McDunnough, 1922
6590 *pampinaria* (Gn., 1857). (923) Det. K. Bolte, 1992. (cranberry spanworm, common gray) C. Pl.52(8)

Genus *Besma* Capps, 1943
6884 *endropiaria* (G. & R., 1867). (136) Det. J. R. Grehan, 1990. (straw besma) C. Pl.53(21)
6885 *quercivoraria* (Gn., 1857). (813) Det. J. R. Grehan, 1991. (oak besma) C. Pl.53(19,20)

Genus *Biston* Leach, 1815
6640 *betularia* (L., 1758). (380) Det. J. R. Grehan, 1990. (pepper-and-salt moth*, cleftheaded spanworm, peppered moth or geometer, arpeuteuse cornue, f., Fr.) C. Pl.54(11)

Genus *Cabera* Treitschke, 1825
6677 *erythemaria* Gn., 1857. (88) Det. D. C. Ferguson, 1990. (yellow-dusted cream moth) C. Pl.48(7)

Genus *Campaea* Lamarck, 1816
6796 *perlata* (Gn., 1857). (221) Det. D. C. Ferguson, 1990. (fringed looper, pale beauty, arpeuteuse perlée, f., Fr.) C. Pl.48(14)

Genus *Caripeta* Walker, 1863
6867 *angustiorata* Wlk., 1863. (409) Det. J. R. Grehan, 1990. (brown pine looper, arpeuteuse brune du pin, f., Fr.) C. Pl.53(17)
6863 *divisata* Wlk., 1863. (220) Det. J. R. Grehan, 1990. (gray spruce looper, arpeuteuse grise de l'épinette, f., Fr.) C. Pl.53(18)
6864 *piniata* (Pack., 1870). (219) Det. J. R. Grehan, 1990. (northern pine looper, arpeuteuse rousse du pin, f., Fr.) C. Pl.53(13)

Genus *Cepphis* Hübner, 1823
6835 *armataria* (H.-S., 1855). (140) Det. J. R. Grehan, 1990. (scallop moth) C. Pl.54(4)
6834 *decoloraria* (Hulst, 1886). (759) Det. M. Sabourin, 1991.

Genus *Cingilia* Walker, 1862
6898 *catenaria* (Drury, 1773). (117) Det. J. R. Grehan, 1990. (chainspotted geometer*, chain-dotted geometer*, arpeuteuse caténaire, f., Fr.) C. Pl.48(19)

Genus *Ectropis* Hübner, 1825
6597 *crepuscularia* (D. & S., 1775). (17) Det. D. C. Ferguson, 1989. (saddleback looper, the small engrailed, arpeuteuse bossue de la pruche, f., Fr.) C. Pl.52(15)

Genus *Ematurga* Lederer, 1853
6436 *amitaria* (Gn., 1857). (1208) Det. J. R. Grehan, 1993. (cranberry spanworm) C. Pl.50(20)

Genus *Ennomos* Treitschke, 1825
6797 *magnaria* Gn., 1857. (381) Det. J. R. Grehan, 1990. (notchwing geometer, maple spanworm,

- arpenteuse nouée, f., Fr.) C. Pl.55(9)
 6798 *subsignaria* (Hbn., 1823). (818) Det. D. C. Ferguson, 1990. (elm spanworm*, snowwhite linden moth, arpeuse de l'orme, f., Fr.) C. Pl.48(5)

Genus *Epelis* Hulst, 1896

- 6321 *truncataria* (Wlk., 1862). (969) Det. M. Sabourin, 1992.

Genus *Epirranthis* Hübner, 1823

- 6799 *substriataria* (Hulst, 1896). (445) Det. J. D. Lafontaine, 1991.

Genus *Erannis* Hübner, 1825

- 6665 *tiliaria* (Harr., 1841). (599) Det. J. R. Grehan, 1991. (linden looper*, lime tree looper, winter moth, arpeuse du tilleul, f., Fr.) C. Pl.1(14),47(6),51(13)

Genus *Euchlaena* Hübner, 1825 (loopers)

- 6739 *irrararia* (B. & McD., 1917). (265) Det. J. R. Grehan, 1990. (least-marked euchlaena) C. Pl.51(19)
 6729 *johnsonaria* (Fitch, 1869). (1363) Det. M. Sabourin, 1990. (Johnson's euchlaena) C. Pl.51(11)
 6725 *muzaria* (Wlk., 1860). (271) Det. D. F. Schweitzer, 1990. (muzaria euchlaena)
 6724 *serrata* (Drury, 1770). (907) Det. M. Sabourin, 1991. (the saw-wing) C. Pl.51(15)
 6737 *tigrinaria* (Gn., 1857). (237) Det. J. R. Grehan, 1990. (mottled euchlaena) C. Pl.51(20)

Genus *Eufidonia* Packard, 1876 C. Pl.51(6)

- 6637 *convergaria* (Wlk., 1860). (130) Det. M. Sabourin, 1990.
 6639 *discospilata* (Wlk., 1862). (1210) Det. J. R. Grehan, 1993. (sharp-lined powder moth)

Genus *Eugonobapta* Warren, 1894

- 6965 *nivosaria* (Gn., 1857). (566) Det. D. F. Schweitzer, 1990. (snowy geometer) C. Pl.48(6)

Genus *Eumacaria* Packard, 1873

- 6272 *latiferrugata* (Wlk., 1863). (1425) Det., M. Sabourin, ver. D. F. Schweitzer, 1994. (brown-bordered geometer) C. Pl.50(19)

Genus *Eusarca* Hübner, 1813

- 6941 *confusaria* Hbn., 1813. (718) Det. J. R. Grehan, 1991. (confused eusarca) C. Pl.56(6)

Genus *Eutrapela* Hübner, 1809

- 6966 *clemataria* (J.E., Smith, 1797) (25) Det. J. R. Grehan, 1990. (purplishbrown looper, curve-toothed looper, arpeuse bituberculée, f., Fr.) C. Pl.55(1)

Genus *Heliomata* Grote and Robinson, 1866

- 6261 *cycladata* G. & R., 1866. (216) Det. J. R. Grehan, 1990. (common spring moth) C. Pl.49(23)

Genus *Hesperumia* Packard, 1873

- 6431 *sulphuraria* Packard, 1873. (378) Det. J. R. Grehan, 1990. (sulphur moth) C. Pl.51(5)

Genus *Homochlodes* Hulst, 1896

- 6813 *disconventa* (Wlk., 1860). (91) Det. J. R. Grehan, 1990.
 6811 *lactispargaria* (Wlk., 1861). (15) Det. D. C. Ferguson, 1989.

Genus *Hypagyrtis* Hübner, 1818

- 6656 *piniata* (Pack., 1870). (300) Det. D. C. Ferguson, 1990. (pine measuringworm, diamondbacked conifer looper, arpeuse du pin, f., Fr.) C. Pl.52(1)
 6654 *unipunctata* (Haw., 1809). (301) Det. D. C. Ferguson, 1990. (one-spotted variant, white-spot-of-wood, dotted-angle-of-wood, arpeuse losange, f., Fr.) C. Pl.51(9,12)

Genus *Iridopsis* Warren, 1894

- 6588 *larvaria* (Gn., 1857). (336) Det. J. R. Grehan, 1991. (bent-line gray) C. Pl.52(9)

Genus *Itame* Hübner, 1823

- 6287 *anataria* (Swett, 1913). (1199) Det. J. R. Grehan, 1993, ver. D. C. Ferguson, 1994.
 6282 *argillacearia* (Pack., 1874). (1216) Det. J. R. Grehan, 1993, ver. D. C. Ferguson, 1994.
 6286 *brunneata* (Thunb., 1784). (989) Det. M. Sabourin, 1992, ver. D. C. Ferguson, 1994.
 6299 *coortaria* (Hulst, 1887). (303) Det. J. R. Grehan, 1990, ver. D. C. Ferguson, 1994. (four-spotted itame) C. Pl.50(17)
 6292 *exauspicata* (Wlk., 1861). (1463) Det. D. C. Ferguson, 1994. (a looper)
 6290a *loricaria* (Evers., 1837). (1412) Det. D. C. Ferguson, 1994. (false bruce spanworm)
 6273 *pustularia* (Gn., 1857). (490) Det. D. C. Ferguson, 1990. (lesser maple spanworm, petite arpeuse de l'érable, f., Fr.) C. Pl.48(8)
 6274 *ribearia* (Fitch, 1848). (979) Det. M. Sabourin, 1992, ver. D. C. Ferguson, 1994. (currant spanworm*, arpeuse du groseillier, f., Fr.) C. Pl.51(8)
 6303 *subcessaria* (Wlk., 1861). (920) Det. D. C. Ferguson, 1994.
 6283 *sulphurea* (Pack., 1873). (WJK) Det. W. J. Kiel, 1991.

Genus *Lambdina* Capps, 1943

- 6894a *fervidaria athasaria* (Wlk., 1860). (149) Det. D. C. Ferguson, 1990. (curvelined looper) C. Pl.54(15)
 6888 *fiscellaria* (Gn., 1857). (191) Det. J. R. Grehan, 1990. (hemlock looper, arpeuse de la pruche, f., Fr.) C. Pl.54(21)

Genus *Lomographa* Hübner, 1825

- 6668 *glomeraria* (Grt., 1881). (1) Det. D. C. Ferguson, 1989. (gray spring moth) C. Pl.50(15)
 6666 *semiclarata* (Wlk., 1866). (124) Det. J. R. Grehan, 1990. (wildcherry looper, bluish spring moth, arpeuse à petits losanges, f., Fr.) C. Pl.49(18)
 6667 *vestaliata* (Gn., 1857). (44) Det. D. C. Ferguson, 1990. (white spring moth, arpeuse verte piquée, f., Fr.) C. Pl.48(13)

Genus *Lycia* Hübner, 1825 C. Pl.54(5,13)

- 6651 *ursaria* (Wlk., 1860). (229) Det. J. D. Hedbor, 1991. (stout spanworm or looper, arpeuse piquée jaune, f., Fr.)

Genus *Lytrosis* Hulst, 1896

- 6720 *unitaria* (H.-S., 1854). (379) Det. J. R. Grehan, 1990. (common lytrosis) C. Pl.52(10)

Genus *Melanolophia* Hulst, 1896

- 6620 *canadaria* (Gn., 1857). (487) Det. D. C. Ferguson, 1989. (Canadian melanolophia, variable redmarked looper, mélanophe du Canada, m., Fr.) C. Pl.52(3)
 6621 *signataria* (Wlk., 1860). (11) Det. D. C. Ferguson, 1990. (signate melanolophia, striped green looper, mélanophe brunâtre, m., Fr.) C. Pl.52(2)

Genus *Metanema* Guenée, 1857

- 6819 *inatormaria* Gn., 1857. (172) Det. J. R. Grehan, 1990. (pale metanema, pale looper) C. Pl.54(9)

Genus *Metarranthis* Warren, 1894

- 6823 *angularia* B. & McD., 1917. (488) Det. D. C. Ferguson, 1990. (angled metarranthis) C. Pl.53(10)
 6826.2 *sp.* (unpublished name) Det. D. C. Ferguson, 1993.
 6822 *duaria* (Gn., 1857). (1036) Det. M. Sabourin, 1991, ver. D. C. Ferguson, 1993. (ruddy metarranthis) C. Pl.53(15)
 6826 *hypochraria* (H.-S., 1854). (198) Det. J. R. Grehan, 1990, ver. D. C. Ferguson, 1993. (common metarranthis) C. Pl.54(20)
 6832 *obfirmaria* (Hbn., 1823). (1069) Det. J. D. Hedbor, 1992. C. Pl.53(11)
 6827 *refractaria* (Gn., 1857). (1326) Det. D. C. Ferguson, 1993.
 6821 *warnerae* (Harv., 1874). (1256) Det. J. R. Grehan & ver. D. C. Ferguson, 1993.

Genus *Nacophora* Hulst, 1896

- 6763 *quernaria* (J. E. Smith, 1797). (275) Det. J. R. Grehan, 1991. (oak beauty, nacophore du chêne, m., Fr.) C. Pl.54(2)

Genus *Nematocampa* Guenée, 1857

- 7009 *resistaria* (H.-S., 1855). (415) Det. J. R. Grehan, 1990. (filament bearer*, horned spanworm, nématocampe, m., Fr.) C. Pl.54(12)

Genus *Nepytia* Hulst, 1896

- 6906 *canosaria* (Wlk., 1863). (276) Det. J. R. Grehan, 1990. (false hemlock looper*, evergreen cleora, fausse arpeuse de la pruche, f., Fr.) C. Pl.56(1)

Genus *Orthofidonia* Packard, 1876

- 6430 *flavivenata* (Hulst, 1898). (705) Det. J. D. LaFontaine, 1991.
6428 *tinctaria* (Wlk., 1860). (121) Det. J. R. Grehan, 1990.

Genus *Paleacrita* Riley, 1876

- 6662 *vernata* (Peck, 1795). (286) Det. M. Sabourin, 1993. (spring cankerworm*, arpeuse du printemps, f., Fr.) C. Pl.54(8)

Genus *Patalene* Herrich-Schäffer, 1854

- 6974a *olyzonaria puber* (G. & R., 1867). (164) Det. D. F. Schweitzer, 1991. (juniper geometer) C. Pl.54(10)

Genus *Pero* Herrich-Schäffer, 1855

- 6753 *honestaria* (Wlk., 1860). (90) Det. D. C. Ferguson, 1990. (honest pero) C. Pl.56(17)
6754 *hubneraria* (Gn., 1857). (73) Det. D. C. Ferguson, 1990. (Hübner's pero) C. Pl.54(16)

Genus *Petrophora* Hübner, 1811 C. Pl.55(6)

- 6804 *subaequaria* (Wlk., 1860). (816) Det. J. R. Grehan, 1991. (northern petrophora, leaping looper)

Genus *Phigalia* Duponchel, 1829

- 6660 *strigataria* (Minot, 1869). (990) Det. J. D. Hedbor & M. Sabourin, 1991. (small phigalia) C. Pl.52(20)
6658 *titea* (Cram., 1782). (26) Det. D. C. Ferguson, 1990. (the half-wing, spiny looper, arpeuse épineuse des feuillus, f., Fr.) C. Pl.52(21)

Genus *Plagodis* Hübner, 1823

- 6844 *alcoolaria* (Gn., 1857). (218) Det. D. C. Ferguson, 1990. (hollow-spotted plagodis, birch looper) C. Pl.53(4,6)
6843 *fervidaria* (H.-S., 1854). (9) Det. J. R. Grehan, 1989. (fervid plagodis) C. Pl.53(3)
6841 *kuetzingi* (Grt., 1876). (175) Det. J. R. Grehan, 1990. (purple plagodis) C. Pl.53(5)
6842 *phlogosaria* (Gn., 1857). (85) Det. D. C. Ferguson, 1990. (straight-lined plagodis) C. Pl.53(1)
6840 *serinaria* H.-S., 1855. (14) Det. J. R. Grehan, 1989. (lemon plagodis, arpeuse bossue, f., Fr.) C. Pl.53(2)

Genus *Probole* Herrich-Schäffer, 1855

- 6837 *alienaria* H.-S., 1855. (70) Det. J. R. Grehan, 1990. (alien probole) C. Pl.53(12)
6838 *amicaria* (H.-S., 1855). (270) Det. J. R. Grehan, 1990. (friendly probole, redcheeked looper) C. Pl.53(9)

Genus *Prochoerodes* Grote, 1883

- 6982 *transversata* (Drury, 1770). (417) Det. J. R. Grehan, 1990. (large maple spanworm, arpeuse brune du tremble, f., Fr.) C. Pl.56(2)

Genus *Protoboarmia* McDunnough, 1920

- 6598 *porcelaria* (Gn., 1857). (489) Det. J. E. Rawlins, 1991. (porcelain gray, dashlined looper, arpeuse dodue, f., Fr.) C. Pl.52(7)

Genus *Selenia* Hübner, 1823

- 6818 *kentaria* (G. & R., 1867). (31) Det. J. R. Grehan, 1990. (Kent's geometer) C. Pl.55(3)

Genus *Semiothisa* Hübner, 1818

- 6326 *aemulataria* (Wlk., 1861). (163) Det. J. R. Grehan, 1990, ver. D. C. Ferguson, 1994. (common angle, deciduous tree looper)
6342 *bisignata* (Wlk., 1866). (45) Det. D. C. Ferguson, 1990. (red-headed inchworm, white pine looper) C. Pl.50(18)
6362 *continuata* (Wlk., 1862). (929) Det. J. R. Grehan, 1992, ver. D. C. Ferguson, 1994. (curve-lined angle) C. Pl.50(8)
6352 *granitata* (Gn., 1857). (1207) Det. D. C. Ferguson, 1994.
6348 *fissinotata* (Wlk., 1863). (196) Det. D. C. Ferguson, 1990. (hemlock angle) C. Pl.50(11)
6397 *mellistrigata* (Grt., 1873). (1063) Det. D. C. Ferguson, 1994. (willow looper)
6340 *minorata* (Pack., 1873). (87) Det. D. C. Ferguson, 1990. (minor angle, white pine looper) C. Pl.51(3)
6386 *ocellinata* (Gn., 1857). (704) Det. J. D. Lafontaine, 1991. (faint-spotted angle, locust looper) C. Pl.51(4)
6347 *pinistrobata* Fgn., 1972. (76) Det. D. C. Ferguson, 1990. (white pine angle, white pine looper) C. Pl.50(10)
6344a *signaria* (Hbn., 1800-09) (1423) Det. D. C. Ferguson, 1994. (pale marked angle, spruce-fir looper)
6343 *sexmaculata* (Pack., 1867). (305) Det. D. C. Ferguson, 1990. (green larch looper, arpeuse verte du mélèze, f., Fr.)
6350 *submarmorata* (Wlk., 1861). (1460) Det. D. C. Ferguson, 1994.
6339 *transitaria* (Wlk., 1861). (264) Det. J. R. Grehan, 1990. (blurry chocolate angle) C. Pl.51(1)
6330 *ulsterata* (Pears., 1913). (320) Det. D. C. Ferguson, 1990.

Genus *Sicya* Guenée, 1857

- 6912 *macularia* (Harr., 1850). (414) Det. J. R. Grehan, 1990. (sharp-lined yellow, twopronged looper, leaping looper, arpeuse bi-épineuse, f., Fr.) C. Pl.53(14)

Genus *Tacparia* Walker, 1860

- 6806 *atropunctata* (Pack., 1874). (1213) Det. J. R. Grehan, 1993.
6807 *detersata* (Gn., 1857). (92) Det. D. C. Ferguson, 1990. (leaping looper)

Genus *Tetracis* Guenée, 1857

- 6964 *cachexiata* Gn., 1857. (134) Det. J. R. Grehan, 1990. (white slant-line, géomètre à ligne pâle, m., Fr.) C. Pl.55(4)
6963 *crocillata* Gn., 1857. (173) Det. J. R. Grehan, 1990. (yellow slant-line, géomètre à ligne foncée, m., Fr.) C. Pl.55(7)

Genus *Xanthotype* Warren, 1894

- 6743 *sospeta* (Drury, 1773). (812) Det. J. E. Rawlins, 1991. (crocus geometer, géomètre safran, m., Fr.) C. Pl.51(21)
6740 *urticaria* Swett, 1918. (236) Det. J. R. Grehan, 1990. (false crocus geometer, géomètre tacheté, m., Fr.) C. Pl.51(18)

Subfamily GEOMETRINAE

Genus *Chlorochlamys* Hulst, 1896

- 7071 *chloroleucaria* (Gn., 1857). (129) Det. J. R. Grehan, 1990. (blackberry looper, arpeuse des ronces, f., Fr.) C. Pl.46(12), F. 18.1 Pl.4(27-30), Fig.27(a-c)

Genus *Hethemia* Ferguson, 1969

- 7084 *pistasciaria* (Gn., 1857). (997) Det. J. D. Hedbor, 1991. (pistachio emerald) C. Pl.46(10), F. 18.1 Pl.4(76-83), Fig.32(a-c)

Genus *Mesothea* Warren, 1901

- 7085 *incertata* (Wlk., 1862). (1464) Det. J. R. Grehan, 1994. (géomètre vert des bois, m., Fr.) F. 18.1 Pl.4(84-88), Fig.(d-f)

Genus *Nemoria* Hübner, 1818

- 7048 *mimosaria* (Gn., 1857). (302) Det. D. C. Ferguson, 1990. (flanged looper, géomètre vert, m., Fr.) F.

- 18.1 Pl.3(25-29), Fig.12(n)
7047 *rubrifrontaria* (Pack., 1873). (64) Det. D. C. Ferguson, 1990. (red-fronted emerald, flanged looper) C. Pl.46(6), F. 18.1 Pl.3(21-24), Fig.12(j-l)

Genus *Synchlora* Guenée, 1857

- 7058 *aerata* (F., 1798). (223) Det. D. C. Ferguson, 1994. (wavy-lined emerald, camouflaged looper) C. Pl.46(9), F. 18.1 Pl.3(61-66), Fig.4(c)

Subfamily STERRHINAE

Genus *Cyclophora* Hübner, 1822

- 7139 *pendulinaria* (Gn., 1857). (86) Det. J. R. Grehan, 1990. (sweetfern geometer) C. Pl.46(23), McG. I Fig.70-76,101

Genus *Haematopis* Hübner, 1823

- 7146 *grataria* (F., 1798). (576) Det. D. F. Schweitzer, 1991. (chickweed geometer) C. Pl.46(21), H. Pl.43(2), McG. I Fig.64,65,97

Genus *Idaea* Treitschke, 1825

- 7114 *demissaria* (Hbn., 1831). (CTP) Det. M. Sabourin, 1991. (red-bordered wave) C. Pl.46(16), McG. I Fig.57-59,94(a,b),95(a,b) as *Sterrha demissaria*
7126 *dimidiata* (Hufn., 1767). (GRN) Det. M. Sabourin, 1992. McG. I Fig.60,61,94(f,g),95(e,f), as *S. dimidiata*

Genus *Pleuroprucha* Möschler, 1890

- 7132 *insulsaria* (Gn., 1857). (577) Det. D. F. Schweitzer, 1990. (common tan wave) C. Pl.46(19), McG. I Fig.66,67,100

Genus *Scopula* Schrank, 1802

- 7157 *cacuminaria* (Morr., 1874). (803) Det. J. E. Rawlins, 1991. (frosted tan wave) C. Pl.47(3), McG. I Fig.16,17,85
7169 *inductata* (Gn., 1857). (805) Det. J. E. Rawlins, 1991. (soft-lined wave) C. Pl.46(15), H. Pl.43(6) as *Eois inductata*, McG. I Fig.48-53,91
7159 *limboundata* (Haw., 1809). (299) Det. J. R. Grehan, 1991. (larger lace wave, large lace-border) C. Pl.48(2,3), H. Pl.43(5) as *Synelys alabastaria*, McG. I Fig.26-32,89 as *S. enucleata*

Subfamily LARENTIINAE

Genus *Acasis* Duponchel, 1844

- 7635 *viridata* (Pack., 1873). (1037) Det. K. Bolte, 1992. (olive-and-black carpet) C. Pl.46(25)

Genus *Anticlea* Stephens, 1831

- 7330 *multiferata* (Wik., 1863). (1045) Det. J. R. Grehan, 1993. (many-lined carpet) C. Pl.49(13)
7329 *vasiliata* Gn., 1857. (8) Det. D. C. Ferguson, 1989.

Genus *Cladara* Hulst, 1896

- 7639 *atroliturata* (Wik., 1863). (13) Det. J. R. Grehan, 1989. (the scribbler) Pl.46(24)
7637 *limitaria* (Wik., 1860). (43) Det. D. C. Ferguson, 1990. (mottled gray carpet, yellow-lined conifer or green balsam looper, arpentuse verte du sapin, f., Fr.) C. Pl.47(7)

Genus *Coryphista* Hulst, 1896

- 7290 *meadii* (Pack., 1874). (688) Det. J. R. Grehan, 1991. (barberry geometer, barberry looper) C. Pl.47(18),49(14)

Genus *Dyspteris* Hübner, 1818

- 7648 *abortivaria* (H.-S., 1855). (215) Det. J. R. Grehan, 1990. (the bad-wing, badwing geometer, géomètre vert de la vigne, m., Fr.) C. Pl.49(2)

Genus *Dysstroma* Hübner, 1825

- 7182 *citrata* (L., 1761). (930) Det. J. R. Grehan, 1992 & ver. D. C. Ferguson, 1993. (dark marbled carpet)
7189 *hersiliata* (Gn., 1857). (416) Det. J. R. Grehan, 1990 & ver. D. C. Ferguson, 1993. (orange-lined or orange-banded carpet) C. Pl.49(6)
7187 *truncata* (Hufn., 1767). (388) Det. J. R. Grehan, 1990 & ver. D. C. Ferguson, 1993. (marbled carpet) C. Pl.49(3)
7188 *walkerata* (Pears., 1909). (1341) Det. D. C. Ferguson, 1993.

Genus *Ecliptopera* Warren, 1894 C. Pl.47(15)

- 7213 *silaceata* (D. & S., 1775). (38) Det. D. C. Ferguson, 1990. (the small phoenix)

Genus *Epirrhoe* Hübner, 1825

- 7394 *alternata* (Müller, 1764). (80) Det. J. R. Grehan, 1990. (white-banded toothed carpet) C. Pl.47(23)

Genus *Epirrita* Hübner, 1822

- 7433 *autumnata* (Bkh., 1794). (311) Det. D. L. Wagner, 1990. (autumnal or november moth, arpentuse verte veloutée, f., Fr.)

Genus *Eubaphe* Hübner, 1823

- 7440 *mendica* (Wik., 1854). (304) Det. J. R. Grehan, 1990. (the beggar) C. Pl.49(17)

Genus *Eulithis* Hübner, 1821

- 7204 *destinata* (Mösch., 1860). (928) Det. J. R. Grehan, 1992, ver. D. C. Ferguson, 1993.
7196 *diversilineata* (Hbn., 1813). (387) Det. J. E. Rawlins, 1991, ver D. F. Schweitzer, 1993. (lesser grapevine looper*, grapevine looper, arpentuse de la vigne, f., Fr.) C. Pl.49(5)
7206 *explanata* (Wik., 1862). (104) Det. J. R. Grehan, 1990, ver. D. C. Ferguson, 1993. (white eulithis) C. Pl.47(24)
7205 *flavibrunneata* (McD., 1943). (927) Det. D. C. Ferguson, 1993.
7197 *gracilineata* (Gn., 1857). (980) Det. J. E. Rawlins, 1991, ver D. F. Schweitzer, 1993. (greater grapevine looper)
7199 *propulsata* (Wik., 1862). (790) Det. J. E. Rawlins, 1991, ver D. F. Schweitzer, 1993.
7208 *serrataria* (B. & McD., 1917) (DHM) Det. W. Kiel, 1994
7201 *testata* (L., 1761). (850) Det. K. Bolte, 1991. (chevron moth)

Genus *Euphyia* Hübner, 1825

- 7399a *unangulata intermediata* (Gn., 1857). (53) Det. J. R. Grehan, 1990. (sharp-angled carpet) C. Pl.47(22)

Genus *Eupithecia* Curtis, 1825

- 7529 *absinthiata* (Clerck, 1759). (274) Det. D. C. Ferguson, 1990. B. Fig.155,156,272
7495 *affinata* Pearsall, 1908. (1262) Det. F. H. Rindge, 1993. B. Fig. 117,118,255
7574 *albicapitata* Pack., 1876. (AMNH) Det. F. H. Rindge, 1993. (spruce comb geometer, petite arpentuse lignée des cônes de l'épinette, f., Fr.) B. Fig. 107,108,250
7528 *assimilata* Doubleday, 1856. (AMNH) Det. F. H. Rindge, 1993. B. Fig.169,170,279
7524 *cimicifugata* Pears., 1908. (AMNH) Det. F. H. Rindge, 1993. B. Fig.175,176,282
7459 *columbiata* (Dyar, 1904). (2) Det. J. R. Grehan, & ver. K. Bolte, 1993, ex gen. B. Fig.77,78,235
7533 *cretacea* (Pack., 1874). (1048) Det. J. R. Grehan, 1992. B. Fig.163,164,276
7491 *fletcherata* Taylor, 1907. (AMNH) Det. F. H. Rindge, 1993. B. Fig.135,136,263
7531 *indistincta* Tayl., 1910. (AMNH) Det. F. H. Rindge, 1993. B. Fig.161,162,275
7551.1 *interruptofasciata* Pack., 1873. (AMNH) Det. F. H. Rindge, 1993. (juniper looper) B. Fig.143, 144,266
7489 *lariciata* (Freyer, 1842). (992) Det. K. Bolte, 1991. (fir needle inchworm, petite arpentuse du sapin, f., Fr.) B. Fig.129,130,260
7474 *miserulata* Grt., 1863. (71) Det. D. F. Schweitzer, 1990. (common eupithecia, lowbush juniper inchworm) B. Fig.79,80,236, C. Pl.47(17)
7476 *misturata* (Hulst, 1896). (1263) Det. F. H. Rindge, 1993. (tamarack looper) B. Fig.105,106,249
7449 *palpata* Pack., 1873. (1217) Det. J. R. Grehan & ver. K. Bolte, 1993, ex gen. (small pine looper, petite arpentuse du pin, f., Fr.) B. Fig.67,68,230
7540 *perfusca* (Hulst, 1898). (1220) Det. J. R. Grehan & ver. K. Bolte, 1993, ex gen. B. Fig.177,178,283
7605 *ravocostaliata* Pack., 1876. (970) Det. M. Sabourin, 1991. B. Fig.127,128

- 7526 *russeliata* Swett, 1908. (AMNH) Det. F. H. Rindge, 1993. B. Fig.171,172,280
 7520c *satyrata dodata* Taylor, 1906. (AMNH) Det. F. H. Rindge, 1993. B. Fig.153, 154, 271
 7494 *sheppardata* McD., 1938. (AMNH) Det. F. H. Rindge, 1993. (alder looper) B. Fig.149,150,269
 7523 *strattonata* Pack., 1873. (1219) Det. J. R. Grehan & ver. K. Bolte, 1993, ex gen. (spiraea looper) B. Fig.159,160,274
 7487 *subfascata* (Haw., 1809). (1218) Det. J. R. Grehan & ver. K. Bolte, 1993, ex gen. B. Fig.93,94,243
 75.. *sp.*; *satyrata* complex (7520). (AMNH) Det. F. H. Rindge, 1993.

Genus *Heterophleps* Herrich-Schäffer, 1854

- 7645 *refusaria* (Wlk., 1861). (122) Det. J. R. Grehan, 1990. (three-patched bigwing) C. Pl.47(11)
 7647 *triguttaria* H.-S., 1854. (273) Det. J. R. Grehan, 1990. (three-spotted fillip) C. Pl.47(10)

Genus *Horisme* Hübner, 1825

- 7445 *intestinata* (Gn., 1857). (922) Det. K. Bolte, 1992. (brown bark carpet) C. Pl.47(14)

Genus *Hydrelia* Hübner, 1825

- 7423 *albifera* (Wlk., 1866). (204) Det. D. F. Schweitzer, 1991. (fragile white carpet) C. Pl.48(18)
 7420 *condensata* (Wlk., 1862). (1325) Det. D. C. Ferguson, 1993.
 7422 *inornata* (Hulst, 1896). (66) Det. D. C. Ferguson, 1989. (unadorned carpet, birch looper) C. Pl.50(7)
 7419 *lucata* (Gn., 1857) (CTP) Det. J. E. Rawlins, 1991.

Genus *Hydria* Hübner, 1822

- 7292 *prunivorata* (Fgn., 1955). (266) Det. J. R. Grehan, 1990, ex gen. (cherry scalloped moth, Ferguson's scallop shell, chenille à tente du cerisier, f., Fr.) C. Pl.47(13)

Genus *Hydriomena* Hübner, 1825

- 7235 *divisaria* (Wlk., 1860). (1324) Det. D. C. Ferguson, 1993. (blackdashed hydriomena, transverse-banded looper, arpeuse à bandes transversales, f., Fr.) C. Pl.47(12)
 7229 *perfracta* Swett, 1910. (1322) Det. D. C. Ferguson, 1993.
 7236 *renunciata* (Wlk., 1862). (852) Det. M. Sabourin, 1991, ver. D. C. Ferguson, 1993. (renounced hydriomena) C. Pl.49(9)
 7254 *ruberata* (Freyer, 1831). (1323) Det. D. C. Ferguson, 1993.
 7237 *transfigurata* Swett, 1912. (335) Det. J. R. Grehan, 1990, ver. D. C. Ferguson, 1993. (transfigured hydriomena) C. Pl.49(8)

Genus *Lobophora* Curtis, 1825

- 7640 *nivigerata* Wlk., 1862. (116) Det. D. C. Ferguson, 1990. (powdered bigwing, twolined aspen looper, arpeuse bilignée, f., Fr.) C. Pl.48(11)

Genus *Mesoleuca* Hübner, 1825

- 7307 *ruficillata* (Gn., 1857). (165) Det. J. R. Grehan, 1990. (white-ribboned carpet) C. Pl.47(20)

Genus *Operophtera* Hübner, 1825

- 7437 *bruceata* (Hulst, 1886). (479) Det. D. F. Schweitzer, 1991. (Bruce spanworm*, arpeuse de Bruce, f., Fr.) H. Pl.42(24) as *Rachela bruceata*

Genus *Orthonama* Hübner, 1825

- 7416 *centrostrigaria* (Woll., 1858). (521) Det. J. R. Grehan, 1991. (bent-line carpet) C. Pl.50(1,4)
 7414 *obstipata* (F., 1794). (512) Det. J. R. Grehan, 1991. (the gem) C. Pl.49(12,15)

Genus *Perizoma* Hübner, 1825

- 7316 *basaliata* (Wlk., 1862). (806) Det. D. F. Schweitzer, 1991. (square-patched carpet) C. Pl.49(16)

Genus *Rheumaptera* Hübner, 1822

- 7293 *hastata* (L., 1758). (319) Det. J. R. Grehan, 1991. (spear-marked black, argent-and-sable, géomètre noir du bouleau, m., Fr.) C. Pl.50(2)
 7294 *subhastata* (Nolcken, 1870). (MS) Det. M. Sabourin, 1991. (white-banded black, juniper looper) C. Pl.50(5)

Genus *Spargania* Guenée, 1857

- 7312 *magnoliata* Gn., 1857. (1054) Det. J. R. Grehan, 1992. (double-banded carpet) C. Pl.47(4)

Genus *Stamnodes* Guenée, 1857

- 7333 *gibbicostata* (Wlk., 1862). (783) Det. J. R. Grehan & M. Sabourin, 1991. (shiny gray carpet) C. Pl.49(1)

Genus *Thera* Stephens, 1831

- 7217 *juniperata* (L., 1758). (513) Det. J. R. Grehan, 1990. (oldfield juniper spanworm or looper, juniper carpet moth, arpeuse du genévrier, f., Fr.)

Genus *Trichodezia* Warren, 1895

- 7430 *albovittata* (Gn., 1857). (123) Det. J. R. Grehan, 1991. (white-striped black) C. Pl.47(9)

Genus *Venusia* Curtis, 1839

- 7425 *cambrica* Curt., 1839. (169) Det. D. F. Schweitzer, 1990. (the Welsh wave, alder looper) C. Pl.50(6)
 7428 *comptaria* (Wlk., 1860). (369) Det. D. F. Schweitzer, 1990. (brown-shaded carpet, alder looper) C. Pl.50(3)

Genus *Xanthorhoe* Hübner, 1825

- 7370 *abrasaria* (H.-S., 1856). (1176) Det. M. Sabourin, 1993.
 7388 *ferrugata* (Cl., 1759). (81) Det. D. C. Ferguson, 1990. (red twin-spot) C. Pl.49(7)
 7371 *iduata* (Gn., 1857). (1055) Det. J. R. Grehan, 1992
 7368 *labradorensis* (Pack., 1867). (119) Det. J. R. Grehan, 1990. (Labrador carpet) C. Pl.49(10)
 7390 *lacustrata* (Gn., 1857). (760) Det. M. Sabourin, 1991. (toothed brown carpet) C. Pl.47(1)

Family EPIPLEMIDAE (the epiplemid moths)

Genus *Calledapteryx* Grote, 1868

- 7653 *dryopterata* Grt., 1868. (151) Det. J. R. Grehan, 1990. (brown scoopwing) C. Pl.55(12)

Genus *Callizzia* Packard, 1876

- 7650 *amorata* Pack., 1876. (713) Det. J. R. Grehan, 1991. (gray scoopwing) C. Pl.55(13)

Superfamily BOMBYCOIDEA

Family APATELODIDAE (apetalodid moths)

Genus *Olceclostera* Butler, 1878

- 7665 *angelica* (Grt., 1864). (1301) Det. J. D. Hedbor, 1993. (the angel) C. Pl.8(18)

Family LASIOCAMPIDAE (tent caterpillars and lappet moths)

Subfamily MACROMPHALIINAE

Genus *Tolype* Hübner, 1820

- 7673 *laricis* (Fitch, 1856). (486) Det. D. F. Schweitzer, 1990. (larch tolype, larch lappet moth, lasiocampe du mélèze, m., Fr.)
 7670 *velleda* (Stoll, 1791). (484) Det. J. R. Grehan, 1990. (large tolype, large lappet moth, velleda lappet moth, lasiocampe à épauettes, m., Fr.) C. Pl.8(17)

Subfamily GASTROPACHINAE

Genus *Phyllodesma* Hübner, 1820

- 7687 *americana* (Harr., 1841). (74) Det. J. R. Grehan, 1990. (lappet moth*, papillon à épauettes, m., Fr.) C. Pl.8(5)

Subfamily LASIOCAMPINAE

- Genus *Malacosoma* Hübner, 1820
 7701 *americanum* (F., 1793). (281) Det. J. R. Grehan, 1990. (eastern tent cat.*, livrée d'Amérique, f., Fr.)
 C. Pl.1(16),11(1)
 7698 *disstria* Hbn., 1820. (282) Det. J. R. Grehan, 1990. (forest tent caterpillar*, livrée des forêts, f., Fr.)
 C. Pl.11(3)

Family SATURNIIDAE (giant silkworm and royal moths)

Subfamily CITHERONIINAE

- Genus *Anisota* Hübner, 1820
 7723 *virginiensis* (Drury, 1773). (536) Det. J. R. Grehan, 1993. (pink-striped oakworm*, anisote rose du chêne, f., Fr.) C. Pl.8(7,10)

- Genus *Dryocampa* Harris, 1833
 7715 *rubicunda* (F., 1793). (65) Det. J. R. Grehan, 1990. (green-striped mapleworm*, rosy maple moth, anisote de l'érable, f., Fr.) C. Pl.8(15)

- Genus *Eacles* Hübner, 1819
 7704 *imperialis* (Drury, 1773). (CTP) Det. J. D. Hedbor, M. Sabourin, 1990. (imperial moth*, imperial spiny cat., papillon impérial, m., Fr.) C. Pl.1(3),9(5)

Subfamily HEMILEUCINAE

- Genus *Automeris* Hübner, 1819
 7746 *io* (F., 1775). (CTP) Det. J. E. Rawlins, 1985. (io moth*, automeris io, m., Fr.) C. Pl.1(12),2(5),10(2,4)

- Genus *Hemileuca* Walker, 1855
 7732 *lucina* Hy. Edw., 1887 (945) Det. J. D. Hedbor, 1991, ver. D. F. Schweitzer, 1992. (New England buck moth) C. Pl.9(6)

Subfamily SATURNIINAE

- Genus *Actias* Leach, 1815
 7758 *luna* (L., 1758). (345) Det. J. R. Grehan, 1990. (luna moth*, papillon lune, m., Fr.) C. Pl.1(6),2(4),9(8)

- Genus *Antheraea* Hübner, 1819
 7757 *polyphemus* (Cram., 1776). (278) Det. J. R. Grehan, 1990. (polyphemus moth*, polyphème d'Amérique, m., Fr.) C. Pl.1(15),2(6),9(7)

- Genus *Callosamia* Packard, 1864
 7764 *promethea* (Drury, 1773). (607) Det. J. D. Hedbor, 1990. (promethea moth, spicebush silkworm, satumide du cerisier, m., Fr.) C. Pl.1(7),2(2),10(9,12)

- Genus *Hyalophora* Duncan, 1841
 7767 *cecropia* (L., 1758). (471) Det. J. R. Grehan, 1990. (cecropia moth*, cécropia, m., Fr.) C. Pl.1(10),2(8),10(13)

- Genus *Samia* Hübner, 1819
 7759 *cynthia* (Drury, 1773), only in domestication. (CTP) Det. J. E. Rawlins, 1985. (cynthia moth*, ailanthis silkworm) C. Pl.10(1)

Superfamily SPHINGOIDEA

Family SPHINGIDAE (sphinx or hawk moths, hornworms; sphinx, m., Fr.)

Subfamily SPHINGINAE

- Genus *Agrilus* Hübner, 1819
 7771 *cingulata* (F., 1775). (CTP) Det. J. E. Rawlins, 1986. (sweetpotato hornworm* pink-spotted hawk moth,) C. Pl.3(1), H. Pl.6(3) as *Herse cingulata*, RH. 21 Pl.1(1);Fig.2(a,h,i)

- Genus *Ceratomia* Harris, 1839
 7786 *amyntor* (Geyer, 1835). (1067) Det. J. D. Hedbor, 1992. (elm sphinx*) C. Pl. 3(9), H. Pl.4(6), RH. 21 Pl.2(6)
 7787 *undulosa* (Wlk., 1856). (794) Det. M. Sabourin, 1991. (waved sphinx, shinx ondulé, m., Fr.) C. Pl.4(10), H. Pl.6(7), RH. 21 Pl.2(12);Fig.4(d,e,h,i)

- Genus *Laothoe* Fabricius, 1807 (*Cressonia*, Grote and Robinson, 1865)
 7827 *juglandis* (J. E. Smith, 1797). (133) Det. J. R. Grehan, 1990. (walnut sphinx*, sphinx du noyer, m., Fr.) C. Pl.6(5)

- Genus *Lapara* Walker, 1856
 7817 *bombycoides* Wlk., 1856. (214) Det. J. E. Rawlins, 1991. (northern pine sphinx, pinetree sphinx, sphinx du pin, m., Fr.) C. Pl.5(8), H. Pl.3(7), RH. 21 Pl.6(3,4,6);Fig.9(a,b,g)

- Genus *Manduca* Hübner, 1807
 7776 *quinquemaculata* (Haw., 1803). (780) Det. M. Sabourin, 1991. (tomato hornworm*, five-spotted hawkmoth, sphinx de la tomate, m., Fr.) C. Pl.3(4), H. Pl.4(1) as *Protoparce quinquemaculatus*, RH. 21 Pl.1(6)

- Genus *Pachysphinx* Rothschild and Jordan, 1903
 7828 *modesta* (Harr., 1839). (213) Det. J. R. Grehan, 1990. (big poplar sphinx, modest sphinx, sphinx du peuplier, m., Fr.) C. Pl.3(3)

- Genus *Paonias* Hübner, 1819
 7824 *excaecatus* (J. E. Smith, 1797). (452) Det. J. R. Grehan, 1990. (blinded sphinx, blindeyed sphinx, sphinx aveugle, m., Fr.) C. Pl.6(3)
 7825 *myops* (J. E. Smith, 1797). (212) Det. J. R. Grehan, 1990. (small-eyed sphinx) C. Pl.6(2)

- Genus *Smerinthus* Latreille, 1802
 7822 *carisyi* Kby., 1837. (20) Det. J. R. Grehan, 1990. (one-eyed sphinx, willow sphinx) C. Pl.6(1)
 7821 *jamaicensis* (Drury, 1773). (132) Det. J. R. Grehan, 1990. (twin-spotted sphinx, sphinx géminé, m., Fr.) C. Pl.6(4)

- Genus *Sphinx* Linnaeus, 1758
 7796 *eremitus* (Hbn., 1823). (472) Det. J. Luzatto & ver J. D. Lafontaine, 1991. (hermit sphinx, sphinx ermite, m., Fr.) C. Pl.5(4), H. Pl.6(6) as *Hyloicus eremitus*, RH. 21 Pl.3(5)
 7802 *cheris* (Hbn., 1823). (1068) Det. J. D. Hedbor & ver. M. Sabourin, 1992. (great ash sphinx*, sphinx du frêne, m., Fr.) C. Pl.4(7), H. Pl.7(8) as *H. cheris*, RH. 21 Pl.3(9,10),4(2);Fig.5(a)
 7812 *drupiferarum* J. E. Smith, 1797. (781) Det. M. Sabourin, 1991. (plum tree sphinx, wild cherry sphinx) C. Pl.4(11), H. Pl.7(6) as *H. drupiferarum*, RH. 21 Pl.5(11)
 7809 *kalmiae* J. E. Smith, 1797. (197) Det. M. Sabourin, 1991. (laurel sphinx, sphinx du laurier, m., Fr.) C. Pl.4(6), H. Pl.6(8) as *H. kalmiae*, RH. 21 Pl.5(2)
 7811 *luscitiosa* Clem., 1859. (HR) Det. H. Romack, 1991. (Clemens' sphinx) C. Pl.4(2), H. Pl.5(1) as *H. luscitiosa*, RH. 21 Pl.5(10,13,16)
 7810.1 *poecila* Stephens, 1828. (451) Det. M. Sabourin, 1993. C. Pl.5(3) as *Sphinx gordius*, H. Pl.5(13) as *Hyloicus gordius*, RH. 21 Pl.5(3,4,7) as *S. gordius*

Subfamily MACROGLOSSINAE

- Genus *Amphion* Hübner, 1819
7873 *floridensis* B. P. Clark, 1920. (453) Det. J. Leonard, 1982. (nessus sphinx) C. Pl.6(20)
- Genus *Darapsa* Walker, 1856
7885 *myron* (Cram., 1780). (211) Det. J. R. Grehan, 1990. (Virginia creeper sphinx*, hog sphinx, sphinx de Myron, m., Fr.) C. Pl.6(11)
7886 *pholus* (Cram., 1776). (1047) Det. J. R. Grehan, 1992. (azalea sphinx) C. Pl.6(12)
7884 *versicolor* (Harr., 1839) Det. M. S. Griggs, 1994. (hydrangea sphinx)
- Genus *Deidamia* Clemens, 1859
7871 *inscripta* (Harr., 1839). (454) Det. J. R. Grehan, 1991. (lettered sphinx) C. Pl.6(14)
- Genus *Eumorpha* Hübner, 1807
7859 *pandorus* (Hbn., 1821). (JDH) Imm. Det. J. D. Hedbor, 1991. (pandorus sphinx, sphinx pandore, m., Fr.) C. Pl.3(13)
- Genus *Hemaris* Dalman, 1816
7855 *diffinis* (Bdv., 1836). (1222) Det. M. Skinner, 1993. (snowberry clearwing, honeysuckle clearwing, sphinx du chèvrefeuille, m., Fr.) C. Pl.6(19)
7853 *thysbe* (F., 1775). (455) Det. P. M. Hanson, 1980. (hummingbird clearwing, sphinx colibri, m., Fr.) C. Pl.6(16)
- Genus *Hyles* Hübner, 1819
7893 *gallii* (Rottemburg, 1775). (809) Det. M. Sabourin, 1991. (galium sphinx, bedstraw hawkmoth, sphinx du gaillet, m., Fr.)
7894 *lineata* (F., 1775) (CTP) Det. J. E. Rawlins, 1986. (white-lined sphinx*, white-striped hawkmoth, sphinx à lignes blanches, m., Fr.) C. Pl.3(14)
- Genus *Sphacodina* Blanchard, 1840
7870 *abbottii* (Swainson, 1821). (156) Det. J. R. Grehan, 1991. (Abbot's sphinx) C. Pl.6(9)

Superfamily NOCTUOIDEA

Family NOTODONTIDAE (prominents or notodontids)

- Genus *Cerura* Schrank, 1802
7942 *scitiscrupta* Wlk., 1865. (Field) Det. M. Sabourin, 1993. (blacketched prominent) C. Pl.1(5);44(12)
- Genus *Clostera* Samouelle, 1819
7895 *albosigma* Fitch, 1856. (157) Det. J. R. Grehan, 1990. (sigmoid prominent, rustylined leaf-tier, notodonte luné, m., Fr.) C. Pl.42(11)
7901 *apicalis* (Wlk., 1855). (100) Det. M. S. Griggs & J. R. Grehan, 1994
7898 *strigosa* (Grt., 1882). (203) Det. D. F. Schweitzer, 1990. (poplar leaf-tier, notodonte terne, m., Fr.)
- Genus *Dasylophia* Packard, 1864
7957 *anguina* (J. E. Smith, 1797). (639) Det. J. R. Grehan 1991. (black-spotted prominent) C. Pl.43(9,12)
7958 *thyatiroides* (Wlk., 1862). (640) Det. J. R. Grehan 1991. (gray-patched prominent) C. Pl.44(7)
- Genus *Datana* Walker, 1855
7902 *ministra* (Drury, 1773). (936) Det. J. R. Grehan, ver. J. D. Lafontaine, 1992 (yellow-necked caterpillar*, chenille à col jaune, f., Fr.) C. Pl.43(1)
7907 *integerrima* G. & R., 1866. (849) Det. M. Sabourin, 1991. (walnut caterpillar*, chenille du noyer, f., Fr.) C. Pl.43(10)

- Genus *Ellida* Grote, 1876
7930 *caniplaga* (Wlk., 1856). (386) Det. J. R. Grehan, 1990. (linden prominent) C. Pl.42(13)
- Genus *Furcula* Lamarck, 1816
7936 *borealis* (Guér.-Menéville, 1832). (37) Det. D. F. Schweitzer, 1990. (white furcula) C. Pl.44(15)
7937 *cinerea* (Wlk., 1865). (JDH) Det. J. D. Hedbor, 1992. (gray furcula, forktailed cat.) C. Pl.44(14)
7941 *modesta* (Hudson, 1891). (69) Det. D. F. Schweitzer, 1990. (fishtailed cat., modest furcula)
7939 *occidentalis* (Lint., 1878). (631) Det. J. D. Lafontaine, 1991. (fishtailed cat., occidental furcula)
- Genus *Gluphisia* Boisduval, 1828
7933 *avimacula* Hudson, 1891. (208) Det. D. F. Schweitzer, 1990.
7934 *lintneri* (Grt., 1877). (366) Det. D. Lafontaine, 1991. (poplar caterpillar)
7931 *septentrionis* Wlk., 1855. (28) Det. D. F. Schweitzer, 1990. (common gluphisia, pale green notodontid, notodonte septentrionale, f., Fr.) C. Pl.43(18)
- Genus *Heterocampa* Doubleday, 1841
7995 *biundata* Wlk., 1855. (649) Det. Det. J. D. Lafontaine, 1991 (wavy-lined heterocampa) C. Pl.44(4)
7994 *guttivitta* (Wlk., 1855). (21) Det. J. D. Lafontaine, 1991. (saddled prominent*, maple prominent, hétérocampe de l'érable, f., Fr.) C. Pl.44(6)
7983 *obliqua* Pack., 1864. (1362) Det. J. R. Grehan, 1993. (oblique heterocampa) C. Pl.43(17,19)
- Genus *Hyparpax* Hübner, 1825
8022 *aurora* (J. E. Smith, 1797). (HR) Det. H. Romack, Jr, 1990. (pink prominent) C. Pl.43(6)
- Genus *Hyperaeschra* Butler, 1880
7917 *georgica* (H.-S., 1855). (1211) Det. J. R. Grehan, 1993. (Georgian prominent) C. Pl.42(8)
- Genus *Lochmaeus* Doubleday, 1841
7999 *bilineata* (Pack., 1864). (981) Det. M. Sabourin, 1991. (double-lined or elm prominent, hétérocampe birayée, f., Fr.) C. Pl.42(14)
7998 *manteo* Doubleday, 1841. (534) Det. D. F. Schweitzer, 1990. (variable oakleaf cat. *, hétérocampe du chêne, f., Fr.) C. Pl.42(16)
- Genus *Macrurocampa* Dyar, 1893
7975 *marthesia* (Cram., 1780). (982) Det. M. Sabourin, 1992. (mottled prominent, hardwood cat.) C. Pl.42(20)
- Genus *Nadata* Walker, 1855
7915 *gibbosa* (J.E. Smith, 1797). (93) Det. J. R. Grehan, 1990. (green oak or yellowlined cat., white-dotted prominent, chenille verte du chêne, f., Fr.) C. Pl.43(14)
- Genus *Nerice* Walker, 1855
7929 *bidentata* Wlk., 1855. (244) Det. J. R. Grehan, 1990. (double-toothed prominent, notodonte à dents-de-scie, m., Fr.) C. Pl.43(4)
- Genus *Notodonta* Ochsenheimer, 1810
7926 *scitipennis* Wlk., 1862. (1151) Det. G. R. Nielsen, 1992. (humped caterpillar, notodonte à deux bosses, m., Fr.)
7928 *simplicaria* Graef, 1881. (201) Det. D. F. Schweitzer, 1991. (humped caterpillar)
- Genus *Odontesia* Hübner, 1819
7924 *elegans* (Stkr., 1885). (318) Det. D. F. Schweitzer, 1991. (elegant prominent, aspen cat., notodonte élégant, m., Fr.) C. Pl.44(3)
- Genus *Oligocentria* Herrich-Schäffer, 1856
8017 *lignicolor* (Wlk., 1855). (528) Det. J. R. Grehan, 1990. (white-streaked prominent, lacecapped cat.) C. Pl.42(18)
8012 *semirufescens* (Wlk., 1865). (355) Det. J. R. Grehan, 1990. (red-washed prominent) C. Pl.44(9)

- Genus *Peridea* Stephens, 1828
 7920 *angulosa* (J.E. Smith, 1797) (207) Det. J. R. Grehan, 1990, ver. D. F. Schweitzer, 1991. (angulose prominent, oak cat., notodonte du chêne, m., Fr.) C. Pl.43(16)
 7919 *basitriens* (Wik., 1855). (385) Det. J. R. Grehan, 1990. (oval-based prominent, redmarked cat.) C. Pl.43(11)
 7921 *ferruginea* (Pack., 1864). (225) Det. J. R. Grehan, 1990. (chocolate prominent, birch cat., notodonte ferrugineux, m., Fr.) C. Pl.43(13)

- Genus *Pheosia* Hübner, 1819
 7922 *rimosa* Pack. 1864. (32) Det. J. R. Grehan, 1990. (false sphinx, black-rimmed prominent, faux-shpinx, m., Fr.) C. Pl.42(15)

- Genus *Schizura* Doubleday, 1841
 8006 *badia* (Pack., 1864). (1307) Det. M. S. Griggs, 1993. (chestnut schizura) C. Pl.44(2)
 8010 *concinna* (J.E. Smith, 1797). (1421) Det. J. R. Grehan, 1994. (red-humped caterpillar*, red-humped appleworm, chenille à bosse rouge, f., Fr.) C. Pl.44(5,8)
 8005 *ipomoeae* Doubleday, 1841. (246) Det. J. R. Grehan, 1990. (morning glory prominent, oak and maple humped cat., chenille bossue du chêne et de l'érable, f., Fr.) C. Pl.42(19,21)
 8011 *leptinoides* (Grt., 1864). (159) Det. D. F. Schweitzer, 1990. (black-blotched schizura, humped cat.) C. Pl.44(16)
 8007 *unicornis* (J.E. Smith, 1797). (98) Det. J. R. Grehan, 1990. (unicorn cat.*, chenille licorne, f., Fr.) C. Pl.44(10)

- Genus *Symmerista* Hübner, 1821 C. Pl.43(2)
 7951 *albifrons* (J.E. Smith, 1797). (226) Det. J. R. Grehan, 1992, ex gen. (white-headed prominent)
 7952 *canicosta* Franc., 1946. (808) Det. J. R. Grehan, 1991, ex gen. (red-humped oakworm, chenille à bosse rouge du chêne, f., Fr.)
 7953 *leucitys* Franc., 1946. (807) Det. J. R. Grehan, 1991, ex gen. (orangehumped mapleworm, chenille à bosse orangée, f., Fr.)

Family ARCTIIDAE (tiger moths, woolly bears)

Subfamily LITHOSIINAE

- Genus *Clemensia* Packard, 1864
 8098 *albata* Pack., 1864. (469) Det. J. R. Grehan, 1990. (little white lichen moth) C. Pl.16(12), H. Pl.13(38)

- Genus *Crambidia* Packard, 1864
 8051 *casta* (Pack., 1869) (1462) Det. J. E. Rawlins, 1994. (pearly-winged lichen moth, a footman) C. Pl.16(14)
 8045.1 *pallida* Pack., 1864. (468) Det. J. R. Grehan, 1990. (pale lichen moth) C. Pl.16(5)

- Genus *Eilema* Hübner, 1819
 8043 *bicolor* (Grt., 1864). (701) Det. J. R. Grehan, 1991. (bicolored moth, a footman moth, lexis bicolor, m., Fr.) C. Pl.16(2), H. Pl.13(29) as *Lexis bicolor*

- Genus *Hypoprepia* Hübner, 1827-31
 8090 *fucosa* Hbn., 1827-31. (426) Det. J. R. Grehan, 1990. (painted lichen moth, lithosie peinte, f., Fr.) C. Pl.12(2), H. Pl.13(42)
 8089 *miniata* (Kby., 1837). (427) Det. J. R. Grehan, 1990. (scarlet-winged lichen moth, lithosie écarlate, f., Fr.) C. Pl.12(5), H. Pl.13(41)

- Genus *Lycomorpha* Harris, 1839
 8087 *pholus* (Drury, 1773). (1306) Det. J. R. Grehan, 1993. (black-and-yellow lichen moth, lichen caterpillar, lithosie orangée, f., Fr.) C. Pl.11(16), H. Pl.13(15)

Subfamily ARCTIINAE

Genus *Apantesis* Harr., 1841

- 8171 *nais* (Drury, 1773). (342) Det. J. D. Hedbor, 1992. (nais tiger moth) C. Pl.15(9,10)
 8169 *phalerata* (Harr., 1841). (1153) Det. M. Sabourin, 1991. (harnessed tigermoth) C. Pl.15(8,11), H. Pl.15(6)

Genus *Arctia* Schrank, 1802

- 8166a *caja americana* Harr., 1841. (340) Det. J. R. Grehan, 1990. (great tiger moth, garden tiger moth, écaille martre, f., Fr.) C. Pl.15(13)

Genus *Cycnia* Hübner, 1818

- 8231 *oregonensis* (Stretch, 1873). (622) Det. M. Sabourin, 1991. (oregon cycnia) C. Pl.12(10), H. Pl.16(19) as *Euchaetias oregonensis*
 8230 *tenera* Hbn., 1818. (491) Det. J. R. Grehan, 1990. (delicate cycnia) C. Pl.13(6)

Genus *Ecpantheria* Hübner, 1820

- 8146 *scribonia* (Stoll, 1790) (GRN) Det. G. R. Nielsen, 1992. (giant leopard moth) C. Pl.16(13), H. Pl.16(16) as *E. deflorata*

Genus *Estigmene* Hübner, 1820

- 8131 *acrea* (Drury, 1773). (329) Det. R. W. Park, 1986. (saltmarsh caterpillar*, chenille des marais salants, f., Fr.) C. Pl.13(13,16), H. Pl.16(11,12), Fig.67

Genus *Euchaetes* Harris, 1841

- 8238 *egle* (Drury, 1773). (810) Det. J. R. Grehan, 1991. (milkweed tussock moth, arctiide de l'asclépiade, m., Fr.) C. Pl.12(17)

Genus *Grammia* Rambur, 1866 (*Apantesis*, auth., not Walker, 1855)

- 8176 *anna* (Grt., 1864). (1312) Det. M. Sabourin, 1993. (Anna tigermoth) C. Pl.14(19,22)
 8199 *arge* (Drury, 1773). (776) Det. J. R. Grehan, 1991. (arge moth) C. Pl.14(20)
 8187 *celia* (Saund., 1863). (JDH) Det. J. D. Lafontaine, 1993.
 8196 *parthenice* (W. Kirby, 1837). (1427) Det. M. Sabourin, 1990. (parthenice tiger moth) C. Pl.14(16,17)
 8197 *virgo* (L., 1758). (338) Det. J. R. Grehan, 1990. (virgin tiger moth, apantèse vierge, f., Fr.) C. Pl.14(14)
 8175 *virguncula* (W. Kby., 1837). (235) Det. J. R. Grehan, 1990. (little virgin tiger moth, apantèse petite fille, f., Fr.) C. Pl.14(18)
 8175a *virguncula speciosa* (Mösch., 1864). (CTP) Det. D. F. Schweitzer, 1986.

Genus *Halysidota* Hübner, 1819

- 8203 *tessellaris* (J.E. Smith, 1797). (238) Det. J. R. Grehan, 1990. (banded tussock moth, pale tussock moth*, halisidote du pommier, f., Fr.) C. Pl.12(6)

Genus *Haploa* Hübner, 1820

- 8107 *clymene* (Brown, 1776). (485) Det. J. R. Grehan, 1990. (clymene moth) C. Pl.15(15)
 8112 *confusa* (Lyman, 1887). (337) Det. M. Sabourin, 1990. (confused haploa, arctiide nuancé, m., Fr.) C. Pl.16(8)
 8110 *contigua* (Wik., 1855). (1382) Det. G. R. Nielsen, 1994. (the neighbor) C. Pl.16(1)
 8111 *lecontei* (Guér.-Méneville, 1832). (153) Det. M. Sabourin, 1991. (Leconte's haploa, arctiide de Leconte, m., Fr.) C. Pl.16(3,6)

Genus *Holomelina* Herrich-Schäffer, 1856

- 8123 *ferruginosa* (Wik., 1854). (1409) Det. J. D. Lafontaine, 1994. (rusty holomelina) C. Pl.14(1,6)
 8114 *laeta* (Guér.-Méneville, 1832). (298) Det. J. R. Grehan, 1990. (joyful holomelina, écaille joyeuse, f., Fr.) C. Pl.14(15)
 8118 *opella* (Grt., 1863). (766) Det. M. Sabourin, 1991. (tawny holomelina) C. Pl.14(2,5)

Genus *Hyphantria* Harris, 1841

- 8140 *cunea* (Drury, 1773). (280) Det. J. R. Grehan, 1990. (fall webworm*, chenille à tente estivale, f., Fr.) C. Pl.13(2,5)

Genus *Lophocampa* Harris, 1841

- 8211 *caryae* Harr., 1841. (177) Det. J. R. Grehan, 1990. (hickory tussock moth*, halisidote du caryer, f., Fr.) C. Pl.12(7)
- 8214 *maculata* Harr., 1841. (401) Det. J. R. Grehan, 1990. (spotted tussock moth*, halisidote maculée, f., Fr.) C. Pl.12(9)

Genus *Phragmatobia* Stephens, 1828

- 8158 *assimilans* Wlk., 1855. (75) Det. J. R. Grehan, 1990. (large ruby or dusky red tiger moth, écaille pareille, f., Fr.) C. Pl.14(10)
- 8156 *fuliginosa* (L., 1758). (341) Det. J. R. Grehan, 1990. (ruby tiger moth, arctiide fuligineux, m., Fr.) C. Pl.14(7)

Genus *Platarctia* Packard, 1864

- 8162 *parthenos* (Harr., 1850). (339) Det. J. R. Grehan, 1990. (St. Lawrence tiger moth, giant tiger moth, arctiide du Canada, m., Fr.) C. Pl.15(17)

Genus *Pyrrharctia* Packard, 1864

- 8129 *isabella* (J. E. Smith, 1797). (402) Det. J. R. Grehan, 1990. (banded woollybear*, Isabella tiger moth) C. Pl.1(17), 14(12)

Genus *Spilosoma* Curtis, 1825

- 8134 *congrua* Wlk., 1855. (630) Det. J. E. Rawlins, 1991. (agreeable tiger moth) C. Pl.13(1)
- 8136 *dubia* (Wlk., 1855). (GRN) Det. G. R. Nielsen, 1993, ver. J. E. Rawlins, 1994. (dubious tiger moth, woollybear) C. Pl.13(7)
- 8137 *virginica* (F., 1798). (63) Det. J. R. Grehan, 1990. (yellow woollybear*, Virginian tiger moth, diacrisie de Virginie, f., Fr.) C. Pl.13(4)

Subfamily CTENUCHINAE

Genus *Cisseps* Franclemont, 1936

- 8267 *fulvicollis* (Hbn., 1818). (944) Det. J. R. Grehan, 1990. (yellow-collared scape moth, ciseps à col orangé, m., Fr.) C. Pl.11(12)

Genus *Ctenucha* W. Kirby, 1837

- 8262 *virginica* (Esp., 1794). (234) Det. J. R. Grehan, 1990. (Virginia ctenucha, cténuche de Virginie, f., Fr.) C. Pl.12(1)

Family LYMANTRIIDAE (tussock moths)

Subfamily ORGYIINAE

Genus *Dasychira* Hübner, 1809

- 8293 *dorsipennata* (B. & McD., 1919). (419) Det. J. R. Grehan, 1990. (sharp-lined tussock moth, hémérocampe des feuillus, m., Fr.) C. Pl.45(6,9), F. 22.2 Pl.5(24-34);Fig.3,7(d,e)
- 8302 *obliquata* (G. & R., 1866). (1317) Det. J. D. Lafontaine, 1993. (streaked tussock moth, pine parorgyia) C. Pl.45(2,8), F. 22.2 Pl.2(13-27);Fig.11(c)
- 8304 *plagiata* (Wlk., 1865). (420) Det. D. F. Schweitzer, 1992. (northern pine tussock moth, chenille à houppes du pin, f., Fr.) F. 22.2 Pl.6(10-31)
- 8294 *vagans* (B. & McD., 1913). (1400) Det. J. D. Lafontaine, 1994. (variable tussock moth) C. Pl.45(3), F. 22.2 Pl.3(19), 4(18-36);Fig.8(a)

Genus *Euproctis* Hübner, 1819

- 8320 *chrysoorrhoea* (L., 1758). (Published reference). (Ferguson, 1978) (browntail moth*, culbrun, m., Fr.) F. 22.2 Pl.1(5-8);Fig.23(a), H. Pl.38(16)

Genus *Leucoma* Stephens, 1828 (*Stilpnotia* Westwood, 1841)

- 8319 *salicis* (L., 1758). (770) Det. J. D. Hedbor, 1991. (satin moth*, papillon satiné, m., Fr.) F. 22.2 Pl.1(1,2);Fig.21

Genus *Lymantria* Hübner, 1819 (*Porthetria* Hübner, 1819)

- 8318 *dispar* (L., 1758). (352) Det. J. R. Grehan, 1990. (gypsy moth*, spongieuse, f., Fr.) C. Pl.1(13), 45(7,10), F. 22.2 Pl.1(9-12);Fig.20, H. Pl.38(12,13) as *Porthetria dispar*

Genus *Orgyia* Ochsenheimer, 1810 (*Hemerocampa* Dyar, 1897)

- 8308a *antiqua nova* Fitch, 1863. (389) Det. J. R. Grehan, 1990. (vapourer or rusty tussock moth*, red tussock moth, chenille à houppes rousses, f., Fr.) C. Pl.44(20), F. 22.2 Pl.8(58-63,65);Fig.15, H. Pl.38(18) as *Notolophus antiqua*
- 8314 *definita* Pack., 1864. (515) Det. J. R. Grehan, 1990. (definite marked tussock moth) C. Pl.44(19), F. 22.2 Pl.8(1-9);Fig.18(g,h), H. Pl.38(17) as *Notolophus definita*
- 8316a *leucostigma intermedia* Fitch, 1856. (782) Det. M. Sabourin, 1991. (white-marked tussock moth*, white-spotted tussock moth, chenille à houppes blanches, f., Fr.) C. Pl.1(11), 44(17), F. 22.2 Pl.7(32-37), A(13,14);Fig.18(e,f), H. Pl.38(20,21);Fig.182-184 as *H. leucostigma*

Family NOCTUIDAE (owlet moths, cutworms, noctuelles, f., Fr., ver-gris, m., Fr.)

Subfamily HERMINIINAE

Genus *Bleptina* Guenée, 1854

- 8370 *caradrinalis* Gn., 1854. (647) Det. J. R. Grehan & ver. J. E. Rawlins, 1991. (bent-winged owlet) C. Pl.41(25), H. Pl.37(32), R. Pl.11(2,3)

Genus *Chytolita* Grote, 1873

- 8355 *morbidalis* (Gn., 1854). (326) Det. D. F. Schweitzer, 1990 (morbid owlet) C. Pl.41(24), H. Pl.37(23), R. Pl.9(32)
- 8356 *petrealis* Grt., 1880. (1435) Det. J. D. Lafontaine, 1994. (owlet moth)

Genus *Idia* Hübner, 1813

- 8323 *aemula* Hbn., 1813. (321) Det. J. R. Grehan, 1990. (commom idia, spruce epizeuxis, noctuelle de l'épinette, f., Fr.) C. Pl.41(12), R. Pl.9(2)
- 8322 *americalis* (Gn., 1854). (516) Det. D. F. Schweitzer, 1991. (american idia) C. Pl.39(16), R. Pl.9(1)
- 8333 *denticulalis* (Harv., 1875). (763) Det. J. D. Lafontaine, 1991. H. Pl.37(27) as *Epizeuxis denticulalis*, R. Pl.9(4)
- 8334 *lubricalis* (Gey., 1832). (23) Det. D. F. Schweitzer, 1990. (glossy black idia) C. Pl.41(15), H. Pl.37(29) as *E. lubricalis*, R. Pl.9(11)
- 8326 *rotundalis* (Wlk., 1866). (554) Det. D. F. Schweitzer, 1990. (rotund idia) R. Pl.9(6,7)
- 8330 *scobialis* (Grt., 1880). (1178) Det. J. D. Lafontaine, 1993. (smokey idia) C. Pl.41(13), H. Pl.37(28) as *E. scobialis*, R. Pl.9(10)
- 8323.1 *sp. (concisa of Forbes, 1954).* (636) Det. D. F. Schweitzer, 1990. R. Pl.9(3)

Genus *Lascoria* Walker, 1859

- 8393 *ambigualis* Wlk., 1866. (155) Det. J. R. Grehan, 1990, ver. J. D. Lafontaine, 1991. (ambiguous moth) C. Pl.42(7,10), H. Pl.42(2) as *Gaberasa ambigualis*, R. Pl.11(16)

Genus *Macrochilo* Hübner, 1825

- 8357 *absorptalis* (Wlk., 1859). (322) Det. J. R. Grehan, & ver. J. D. Lafontaine, 1991. (slant-lined owlet) C. Pl.41(21) and H. Pl.37(19) as *Hormisa absorptalis*, R. Pl.9(33)
- 8360 *orciferalis* (Wlk., 1859). (1144) Det. M. Sabourin, 1993. H. Fig.171 as *Sisyrrhpena orciferalis*, R. Pl.9(38,39)

Genus *Melanomma* Grt., 1875

- 8412 *auricinctaria* Grt., 1875. (1405) Det. J. D. Lafontaine, 1994.

- Genus *Palthis* Hübner, 1825
 8397 *angulalis* (Hbn., 1796). (131) Det. D. F. Schweitzer, 1990. (dark-spotted palthis, spruce harlequin, arlequin de l'épinette, m., Fr.) C. Pl.39(25), H. Pl.37(25), R. Pl.11(18)
 8398 *asopialis* (Gn., 1854). (1257) Det. J. R. Grehan, 1993. (faintspotted palthis) C. Pl.39(26), H. Pl.42(1), R. Pl.11(20,21)

- Genus *Phalaenophana* Grote, 1873
 8338 *pyramusalis* (Wik., 1859). (323) Det. J. R. Grehan, 1992. (dark-banded owlet) C. Pl.41(11), H. Pl.37(26), R. Pl.9(17)

- Genus *Phalaenostola* Grote, 1873
 8364 *larentioides* Grt., 1873. (562) Det. D. F. Schweitzer, 1990. (black-banded owlet) C. Pl.41(7), H. Pl.30(1), R. Pl.9(46)
 8363 *eumelusalis* (Wik., 1859). (544) Det. J. D. Lafontaine, 1994. (cw, dark epidelta)
 8365 *hanhami* (Sm., 1899). Det. J. D. Lafontaine, 1994.
 8362 *metonalis* (Wik., 1859). (1375) Det. J. D. Lafontaine, 1994. (pale epidelta) C. Pl.41(18) as *Epidelta metonalis*, H. Pl.37(30) as *Philometra metonalis*, R. Pl.9(41)

- Genus *Renia* Guenée, 1854
 8386 *adspergillus* (Bosc, 1800). (1445) Det. J. D. Lafontaine, 1994.
 8384.1 *flavipunctalis* (Gey., 1832). (819) Det. J. E. Rawlins, 1991. R. Pl.11(5,10)
 8387 *sobrialis* (Wik., 1859). (569) Det. J. D. Lafontaine, 1993. (sober renia) C. Pl.42(4), R. Pl.11(14,15)

- Genus *Zanclognatha* Lederer, 1857
 8351 *cruralis* (Gn., 1854). (324) Det. J. E. Rawlins, 1991. (early zanclognatha) C. Pl.41(22), R. Pl.9(23,24)
 8345 *laevigata* (Grt., 1872). (356) Det. D. F. Schweitzer, 1990. (variable zanclognatha) C. Pl.41(17), H. Pl.37(21), R. Pl.9(19,20)
 8340 *lituralis* (Hbn., 1818). (517) Det. J. R. Grehan, 1991 (lettered zanclognatha) C. Pl.41(16), H. Pl.37(20), R. Pl.9(18)
 8350 *martha* Barnes, 1928. (552) Det. D. F. Schweitzer, 1991. R. Pl.9(28)
 8353 *ochreipennis* (Grt., 1872). (551) Det. D. F. Schweitzer, 1990. (wavy-lined zanclognatha) C. Pl.41(20), H. Pl.37(22), R. Pl.9(30,31)
 8348 *pedipilalis* (Gn., 1854). (325) Det. J. R. Grehan, 1991. (grayish zanclognatha) C. Pl.41(19), R. Pl.9(21)
 8349 *protumnusalis* (Wik., 1859). (568) Det. D. F. Schweitzer, 1991. R. Pl.9(22,27)

Subfamily RIVULINAE

- Genus *Colobochyla* Hübner, 1825
 8411 *interpuncta* (Grt., 1872). (1044) Det. J. R. Grehan, 1992. C. Pl.39(22), R. Pl.11(26)

- Genus *Rivula* Guenée, 1852
 8404 *propinquialis* Gn. 1854. (135) Det. J. R. Grehan, 1990. (spotted grass moth) C. Pl.39(21), H. Pl.29(14), R. Pl.11(23)

Subfamily HYPENODINAE

- Genus *Dyspyralis* Warren, 1891
 8426 *illocata* Warren, 1891. (1154) Det. J. D. Hedbor, 1992. R. Pl.11(30)
 8428 *nigella* (Stkr., 1900). (1214) Det. J. D. Lafontaine, 1993. R. Pl.11(32)

- Genus *Hypenodes* Doubleday, 1850
 8420 *caducus* (Dyar, 1907). (1081) Det. J. D. Lafontaine, 1992. R. Pl.11(28)
 8421 *fractilinea* (Sm., 1908). (1093) Det. J. D. Lafontaine, 1994. (brokenline hypenodes) C. Pl.41(9), R. Pl.11(29)
 8422 *palustris* Fgn., 1954. (1082) Det. J. R. Grehan, 1992, ver. J. D. Lafontaine, 1994.
 8423 *sombrus* Fgn., 1954. (1114) Det. J. D. Lafontaine, 1994.

Subfamily HYPENINAE

- Genus *Bomolocha* Hübner, 1825
 8445 *abalienalis* (Wik., 1859). (371) Det. J. R. Grehan, 1990. (white-lined bomolocha) C. Pl.40(17,20), H. Pl.42(5), R. Pl.10(9,10)
 8442 *baltimoralis* (Gn., 1854). (161) Det. J. R. Grehan, 1990. (Baltimore bomolocha) C. Pl.40(16), H. Pl.42(4), R. Pl.10(3,4)
 8443 *bijugalis* (Wik., 1859). (624) Det. J. R. Grehan, 1991. (dimorphic bomolocha) C. Pl.40(18,21), H. Pl.42(7); Pl.42(9) as *B. toreuta*
 8452 *edictalis* (Wik., 1859). (357) Det. J. R. Grehan, 1990. (large bomolocha) C. Pl.40(10), H. Pl.42(11), R. Pl.10(18,19)
 8446 *deceptalis* (Wik., 1859). (162) Det. J. R. Grehan, 1990, ver. J. E. Rawlins, 1994. (deceptive bomolocha, basswood owlet moth, noctuelle du tilleul, f., Fr.) C. Pl.40(22), H. Pl.42(8), R. Pl.10(13,14)
 8447 *madefactalis* (Gn., 1854). (252) Det. J. R. Grehan, 1990, ver. J. E. Rawlins, 1994. (gray-edged bomolocha) C. Pl.41(1), H. Pl.42(6), R. Pl.10(16,17)
 8441 *manalis* (Wik., 1859). (1172) Det. J. R. Grehan, 1993. (flowing-line bomolocha) C. Pl.40(15), H. Pl.42(3), R. Pl.10(1,2)
 8444 *palparia* (Wik., 1861). (247) Det. M. Sabourin, 1991, ver. J. E. Rawlins, 1994. (mottled bomolocha) C. Pl.40(19), H. Pl.42(10) as *B. scutellaris*, R. Pl.10(7,8)

Genus *Hypena* Schrank, 1802

- 8461 *humuli* Harr., 1841. (571) Det. D. F. Schweitzer, 1991. (hop looper*) H. Pl.42(12,13), Fig.178, R. Pl.10(23,24)

Genus *Lomanaltes* Grote, 1873

- 8455 *eductalis* (Wik., 1859). (561) Det. D. F. Schweitzer, 1990. (alder caterpillar) R. Pl.10(20,21)

Genus *Ophiuche* Hübner, 1825

- 8457 *minualis* (Gn., 1854). (1161) Det. J. R. Grehan, 1993. R. Pl.10(22)

Genus *Plathypena* Grote, 1873

- 8465 *scabra* (F., 1798). (510) Det. D. F. Schweitzer, 1991. (green cloverworm*, noctuelle des légumineuses, f., Fr.) C. Pl.41(2,5), H. Pl.42(14), R. Pl.10(25,236)

Genus *Spargaloma* Grote, 1873

- 8479 *sexpunctata* Grt., 1873. (1212) Det. J. D. Lafontaine, 1993. (six-spotted gray) C. Pl.40(2), H. Pl.30(2) as *Hyamia sexpunctata*, R. Pl.10(29)

Subfamily CATOCALINAE

Genus *Anomis* Hübner, 1821

- 8545 *erosa* Hübner, 1821. (1155) Det. J. D. Lafontaine, 1992. (yellow scallop moth) C. Pl.39(14), H. Pl.29(12), R. Pl.10(30,31), R.&L. Fig.569

Genus *Anticarsia* Hübner, 1818

- 8574 *gemmatalis* Hbn., 1818. (518) Det. J. R. Grehan, 1991. (velvetbean caterpillar*) C. Pl.39(40), H. Pl.37(10), R.&L. Fig.564

Genus *Argyrostromis* Hübner, 1821

- 8764 *anilis* (Drury, 1773). (GRN) Det. G. R. Nielsen, 1991. (short-lined chocolate) C. Pl.38(17), H. Pl.30(41) as *Agnomonis anilis*, R.&L. Fig.544

Genus *Caenurgina* McDunnough, 1937

- 8738 *crassiuscula* (Haw., 1809). (674) Det. J. R. Grehan, 1991. (clover looper*) C. Pl.38(3), R.&L. Fig.541
 8739 *erechtea* (Cram., 1780). (67) Det. J. R. Grehan, 1991. (forage looper*) C. Pl.38(2,6), H. Pl.30(14) as *Drasteria erectea*; Pl.30(15) as *D. crassiuscula*, R.&L. Fig.542

Genus *Calyptra* Ochsenheimer, 1816

- 8536 *canadensis* (Bethune, 1865). (676) Det. J. R. Grehan, 1991. (Canadian owlet) C. Pl.39(6), H. Pl.28(8) as *Calpe canadensis*, R.&L. Fig.568

Genus *Catocala* Schrank, 1802 (underwings)

- 8834 *amatrix* (Hbn., 1809-1813). (400) Det. J. R. Grehan, 1991. (the sweetheart) C. Pl.37(13), H. Pl.32(12,13), R.&L. Fig.602,603, S. Pl.6(6,8)
- 8878 *amica* (Hbn., 1818) (MSG) Det. D. F. Schweitzer, 1994. (girlfriend underwing)
- 8775 *antinympha* (Hbn., 1823). (424) Det. J. R. Grehan, 1990. (wayward nymph, sweetfern underwing) C. Pl.33(4), H. Pl.32(8), R.&L. Fig.572, S. Pl.1(7)
- 8867 *blandula* Hulst., 1884. (792) Det. M. Sabourin, 1991. (charming or gray-blue underwing, likenée gris-bleu, f., Fr.) C. Pl.33(16), R.&L. Fig.581, S. Pl.8(3,8)
- 8817 *briseis* Edw., 1864. (1089) Det. M. S. Griggs, 1992. (Briseis underwing, likenée Briseis, f., Fr.) C. Pl.36(15), H. Pl.32(4) as *C. groteiana*, R.&L. Fig.608,609, S. Pl.5(7,8)
- 8832 *cara* Gn., 1852. (814) Det. J. D. Hedbor, 1991. (darling underwing, bronze underwing) C. Pl.37(20), H. Pl.32(9), R.&L. Fig.604, S. Pl.6(2)
- 8802 *cerogama* Gn., 1852. (423) Det. J. R. Grehan, 1991. (yellow-banded underwing, likenée du tilleul, f., Fr.) C. Pl.36(9), H. Pl.34(6), R.&L. Fig.599, S. Pl.5(1,2)
- 8851 *coccinata* Grt., 1872. (1342) Det. M. S. Griggs & ver. D. F. Schweitzer, 1992. (scarlet underwing) C. Pl.37(6), H. Pl.34(10), R.&L. Fig.579, S. Pl.6(7)
- 8833 *concombens* Wik., 1858. (475) Det. J. R. Grehan, 1991. (sleepy hawthorne or pink underwing, likenée rosée, f., Fr.) C. Pl.37(3), H. Pl.35(10), R.&L. Fig.584, S. Pl.6(5)
- 8858 *crataegi* Saund., 1876. (874) Det. M. Sabourin, 1991. (hawthorn or thorn underwing, likenée de l'aubépine, f., Fr.) C. Pl.33(8), H. Pl.34(12), R.&L. Fig.577, S. Pl.8(1)
- 8773 *epione* (Drury, 1773). (1420) Det. M. S. Griggs, 1994. (epione underwing) C. Pl.34(3), H. Pl.31(3), R.&L. Fig.534, S. Pl.1(11)
- 8847 *gracilis* Edw., 1864. (1303) Det. D. F. Schweitzer, 1994.
- 8864 *grynea* (Cram., 1780). (477) Det. J. R. Grehan, 1991. (woody underwing) C. Pl.33(10), H. Pl.35(6), R.&L. Fig.586, S. Pl.7(22)
- 8778 *habilis* Grt., 1872. (602) Det. J. D. Hedbor, 1990. (habilis underwing) C. Pl.36(8), H. Pl.33(11,12), R.&L. Fig.574, S. Pl.1(8)
- 8801 *ilia* (Cram., 1776). (678) Det. J. R. Grehan, 1991. (ilia underwing, beloved, the wife) C. Pl.37(4,7), H. Pl.34(7,17), R. Pl.4(2), R.&L. Fig.605,606, S. Pl.4(5-8)
- 8770 *innubens* Gn., 1852. (984) Det. J. D. Hedbor, 1991. (the betrothed) C. Pl.36(1,2), H. Pl.33(9,10), R.&L. Fig.533,613, S. Pl.1(1-3)
- 8781 *judith* Stkr., 1874. (709) Det. J. D. Hedbor, 1991. (Judith's underwing) C. Pl.34(6), H. Pl.32(2), S. Pl.1(9)
- 8878.1 *lineella* Grt., 1872. (519) Det. D. F. Schweitzer, 1992. (girlfriend underwing) C. Pl.32(14) as *C. amica*, H. Pl.32(20) as *amica* form *nerissa* R.&L. Fig.589 as *C. amica*, S. Pl.8(23) as *C. amica*
- 8822 *meskei* Grt., 1873. (946) Det. M. S. Griggs, 1991. (Meske's underwing, likenée de Meske, f., Fr.) C. Pl.36(14), H. Pl.33(6), R.&L. Fig.610, S. Pl.5(4)
- 8876 *micronympha* Gn., 1852. (1086) Det. M. Sabourin & ver. J. D. Lafontaine, 1992. (little nymph) C. Pl.32(19); Pl.33(7), H. Pl.35(4) as *C. fratercula*; Pl.32(21) as form *gisela*, R.&L. Fig.587, S. Pl.8(9,12,15,18,21)
- 8863 *mira* Grt., 1876. (702) Det. D. F. Schweitzer, 1993. (wonderful underwing) C. Pl.32(21), H. Pl.35(5) as *C. jaquetta*; Pl.34(13) as *C. polygama*, R.&L. Fig.576, S. Pl.8(2)
- 8798 *neogama* (J. E. Smith, 1797). (791) Det. M. Sabourin, 1991. (the bride) C. Pl.36(12), H. Pl.36(5), R.&L. Fig.598; Fig.597 as *C. subnata*, S. Pl.4(3,4)
- 8795 *palaeogama* Gn., 1852. (1331) Det. M. S. Griggs, 1993. (oldwife underwing) C. Pl.1(9),36(7,10), H. Pl.36(3,4), R.&L. Fig.596, S. Pl.3(9-12)
- 8806 *parta* Gn., 1852. (476) Det. J. R. Grehan, 1991. (mother underwing) C. Pl.37(18), H. Pl.34(11), R.&L. Fig.607, S. Pl.5(11,12)
- 8865 *praeclara* G. & R., 1866. (1396) Det. M. S. Griggs, ver. D. F. Schweitzer, 1994. (praeclara underwing) C. Pl.33(11), R.&L. Fig.583, S. Pl.7(23)
- 8803 *relicta* Wik., 1858. (421) Det. J. R. Grehan, 1991. (forsaken, the relict, white underwing, likenée blanche, f., Fr.) C. Pl.35(9), H. Pl.32(6,7), R.&L. Fig.600,601, S. Pl.4(9-11)
- 8785 *residua* Grt., 1874. (601) Det. J. D. Hedbor, 1991. (residua underwing) C. Pl.35(8), H. Pl.31(14) as *C. obscura*, R.&L. Fig.591, S. Pl.2(2)

- 8788 *retecta* Grt., 1872. (600) Det. J. D. Hedbor, 1991. (yellow-gray underwing) C. Pl.34(10), H. Pl.31(8), R.&L. Fig.593, S. Pl.3(1)
- 8846 *sordida* Grt., 1877. (793) Det. M. Sabourin, 1991. (sordid or blueberry underwing, likenée des bleuets, f., Fr.) C. Pl.33(3,5), H. Pl.35(7) as *C. praeclara*, R.&L. Fig.582, S. Pl.7(12,13,15,16)
- 8797 *subnata* Grt., 1864. (474) Det. J. E. Rawlins, 1991. (youthful underwing) C. Pl.36(18), H. Pl.33(15), S. Pl.4(2)
- 8857 *ultronia* (Hbn., 1823). (679) Det. J. R. Grehan, 1991. (ultronia or plum tree underwing, likenée du prunier, f., Fr.) C. Pl.33(9), H. Pl.33(2,4,7), R. Pl.4(3), R.&L. Fig.578, S. Pl.6(9,11-13)
- 8805 *unijuga* Wik., 1858. (505) Det. J. R. Grehan, 1991. (once-married underwing, likenée rougeâtre, f., Fr.) C. Pl.37(9), H. Pl.33(5), R.&L. Fig.611, S. Pl.5(5,6)

Genus *Drasteria* Hübner, 1818

- 8641 *grandirena* (Haw., 1809). (1394) Det. M. Sabourin, 1991. (figure-seven moth) C. Pl.32(17) as *Synedoida grandirena*, H. Pl.30(27) as *Melipotis limbolaris*, R.&L. Fig.560 as *S. grandirena*

Genus *Euclidia* Ochsenheimer, 1816

- 8731 *cuspidata* (Hbn., 1818). (677) Det. J. R. Grehan, 1991. (toothed somberwing) C. Pl.38(1), H. Pl.30(20), R. Pl.13(6), R.&L. Fig.540

Genus *Euparthenos* Grote, 1876

- 8719 *nubilis* (Hbn., 1823). (606) Det. J. D. Hedbor, 1991. (locust underwing, catocale du robinier, m., Fr.) C. Pl.37(5), H. Pl.36(2), R.&L. Fig.585

Genus *Ledaea* Druce, 1891

- 8491 *perditalis* (Wik., 1859). (1145) Det. M. Sabourin, 1993. C. Pl.40(7), H. Pl.30(4), R. Pl.10(34)

Genus *Metalectra* Hübner, 1823

- 8499 *discalis* (Grt., 1876). (553) Det. M. Sabourin, 1991. (common fungus moth) C. Pl.39(17), R. Pl.11(39)
- 8500 *quadrisignata* (Wik., 1858). (508) Det. D. F. Schweitzer, 1990. (four-spotted fungus moth) C. Pl.42(5), H. Pl.30(5) as *Homopyralis contracta*, R. Pl.11(40)

Genus *Mocis* Hübner, 1823

- 8743 *latipes* (Gn., 1852). (GRN) Det. J. D. Lafontaine, 1994. (small mocis) C. Pl.38(7), R. Pl.13(7), R.&L. Fig.543

Genus *Pangrapta* Hübner, 1818

- 8490 *decoralis* Hbn., 1818. (1385) Det. J. R. Grehan, 1993. (decorated owlet) C. Pl.39(15), H. Pl.30(3)

Genus *Panopoda* Guenée, 1852

- 8588 *carneicosta* Gn., 1852. (686) Det. J. R. Grehan, 1991. (brown panopoda) C. Pl.40(6), H. Pl.36(20), R.&L. Fig.557
- 8587 *rufimargo* (Hbn., 1818). (228) Det. J. R. Grehan, 1991. (red-lined panopoda) C. Pl.39(3), H. Pl.36(19), R.&L. Fig.556

Genus *Parallela* Hübner, 1818

- 8727 *bistriaris* Hbn., 1818. (199) Det. J. R. Grehan, 1990. (maple looper moth, maple cat.) C. Pl.31(21), H. Pl.36(18), R.&L. Fig.539

Genus *Phoberia* Hübner, 1818

- 8591 *atomaris* Hbn., 1818. (466) Det. J. R. Grehan, 1991. (common oak moth) C. Pl.40(1), H. Pl.36(14), R.&L. Fig.559

Genus *Plusiodonta* Guenée, 1852

- 8534 *compressipalpis* Gn., 1852. (769) Det. J. D. Hedbor, 1990. (moonseed moth, CW) C. Pl.39(6), H. Pl.28(6), R.&L. Fig.565

Genus *Scoliopteryx* Germar, 1810

- 8555 *libatrix* (L., 1758). (500) Det. J. R. Grehan, 1990. (the herald, scalloped or European fruitpiercing moth,

découpage, f., Fr.) C. Pl.39(12), H. Pl.26(22), R.&L. Fig.571

Genus *Zale* Hübner, 1818

- 8703 *duplicata* (Bethune, 1865). (30) Det. D. F. Schweitzer, 1991. (pine zale, noctuelle du pin, f., Fr.) R. Pl.12(12), R.&L. Fig.553
- 8692 *galbanata* (Morr., 1876). (917) Det. J. D. Lafontaine, 1992. (maple zale) C. Pl.37(17), H. Pl.37(5) as *Phaeocyma lunifera*, R. Pl.12(3), R.&L. Fig.547
- 8704 *helata* (Sm., 1908). (33) Det. D. F. Schweitzer, 1990. (brown-spotted zale, white pine false looper, fausse-arpenteuse du pin blanc, f., Fr.) C. Pl.38(15), R. Pl.12(21,22,25,26), R.&L. Fig.554
- 8717 *horrida* Hbn., 1818. (296) Det. J. R. Grehan, 1990. (horrid zale, large false looper) C. Pl.38(19), H. Pl.37(3), R. Pl.8(5), R.&L. Fig.555
- 8689 *lunata* (Drury, 1773). (1454) Det. M. S. Griggs & J. R. Grehan, 1994. (lunate zale, false looper) C. Pl.37(8,10), H. Pl.37(15,16) as *Homoptera lunata*, R. Pl.4(1),12(1), R.&L. Fig.545
- 8713 *lunifera* (Hbn., 1818). (363) Det. D. F. Schweitzer, 1990. (bold-based zale, false looper, noctuelle lunifère, f., Fr.) C. Pl.38(21), H. Pl.37(17) as *Homoptera cingulifera* R. Pl.13(1), R.&L. Fig.551
- 8697 *minerea* (Gn., 1852). (154) Det. D. F. Schweitzer, 1991. (colorful zale, large false looper, fausse-arpenteuse des feuillus, f., Fr.) C. Pl.37(12), R. Pl.12(2), R.&L. Fig.550
- 8698 *phaeocapna* Franc., 1950. (256) Det. D. F. Schweitzer, 1990. R. Pl.12(4)
- 8702 *submediana* Strand, 1917. (331) Det. D. F. Schweitzer, 1990. R. Pl.12(19,20), R.&L. Fig.552
- 8695 *undularis* (Drury, 1773). (638) Det. J. R. Grehan, 1991. (black zale, locust false looper) C. Pl.38(13), H. Pl.37(6) as *Ypsia undularis*, R. Pl.12(9,10), R.&L. Fig.549
- 8716 *unilineata* (Grt., 1876). (34) Det. M. Sabourin, 1991. (one-lined zale) C. Pl.37(19), R. Pl.13(3,4), R.&L. Fig.546

Subfamily PLUSIINAE

Genus *Abrostola* Ochsenheimer, 1816

- 8880 *ovalis* Gn., 1852. (1249) Det. M. S. Griggs & ver. J. D. Lafontaine, 1993. H. Pl.28(43), L.&P. Pl.1(1),4(1),A(1),I(1)
- 8881 *urentis* Gn., 1852. (254) Det. D. F. Schweitzer, 1991. H. Pl.28(42), L.&P. Pl.1(2),A(2), R.&L. Fig.532

Genus *Allagrapha* Franclemont, 1964

- 8898 *aerea* (Hbn., 1802-03). (1387) Det. J. R. Grehan, 1991. (unspotted looper moth) C. Pl.32(7), H. Pl.28(16), L.&P. Pl.1(23,24),4(4),B(8), R.&L. Fig.531

Genus *Anagrapha* McDunnough, 1944

- 8924 *falcifera* (Kby., 1837). (200) Det. J. R. Grehan, 1991. (celery looper*, autographe du céleri, m., Fr.) C. Pl.31(7), H. Pl.28(37) as *Autographa simplex*, L.&P. Pl.2(40-44),4(19),H(6), R.&L. Fig.512

Genus *Autographa* Hübner, 1821

- 8923 *ampla* (Wlk., 1858). (377) Det. J. R. Grehan, 1991. (large looper moth) C. Pl.31(3), H. Pl.28(31), L.&P. Pl.2(30,31),4(11),E(2), R. Pl.13(16), R.&L. Fig.519
- 8911 *bimaculata* (Steph., 1830). (1418) Det. J. E. Rawlins, 1991. (two-spotted looper M.) C. Pl.31(5), H. Pl.28(19), L.&P. Pl.2(23,24),D(9), R.&L. Fig.522
- 8912 *mappa* (G. & R., 1868). (317) Det. J. R. Grehan, 1991. L.&P. Pl.2(13), R.&L. Fig.523
- 8908 *precaionis* (Gn., 1852). (494) Det. J. R. Grehan, 1991. (common looper moth, plantain looper) C. Pl.31(14), H. Pl.28(28), L.&P. Pl.2(3-5),D(1), R. Pl.13(12), R.&L. Fig.518

Genus *Chrysanypha* Grote, 1896

- 8904 *formosa* (Grt., 1865). (384) Det. J. R. Grehan, 1991. (Formosa looper moth, plusie élégante, f., Fr.) C. Pl.32(8), H. Pl.28(14) as *Polychrysis formosa*, L.&P. Pl.1(41,42)C(6), R.&L. Fig.526

Genus *Ctenoplusia* Dufay, 1970

- 8889 *oxygramma* (Gey., 1832). (JDH) Det. J. D. Hedbor, 1991. (sharp-stigma looper M.) C. Pl.31(17), as *Agrapha oxygramma*, H. Pl.28(30) as *Autographa oxygramma*, L.&P. Pl.1(10),B(1), R.&L. Fig.536 as *Trichoplusia oxygramma*

Genus *Diachrysis* Hübner, 1821

- 8896 *aeroides* (Grt., 1864). (232) Det. J. R. Grehan, 1991. (dark-spotted looper moth) H. Pl.28(17) as *Plusia aeroides*, L.&P. Pl.1(25),B(9), R.&L. Fig.530 as *P. aeroides*
- 8897 *balluca* Gey., 1832. (358) Det. J. R. Grehan, 1991. (false looper, plusie vert clinquant, f., Fr.) H. Pl.28(22) as *Plusia balluca*, L.&P. Pl.1(26),4(5),C(1), R.&P. Fig.529 as *P. balluca*

Genus *Eosphoropteryx* Dyar, 1902

- 8905 *thyatyroides* (Gn., 1852). (710) Det. J. R. Grehan, 1991. (pink-patched looper moth, peach blossom plusia, plusie rosâtre, f., Fr.) C. Pl.32(9), H. Pl.28(18), L.&P. Pl.1(43),4(7),C(7), R.&L. Fig.527

Genus *Exyra* Grote, 1875

- 9022 *rolandiana* Grt., 1877. (DHM) Det. W. J. Kiel, 1991. R.&L. Fig.458 (pitcher-plant moth)

Genus *Megalographa* Lafontaine and Poole, 1991

- 8907 *biloba* (Steph., 1830). (1091) Det. J. R. Grehan, 1992. (bilobed looper moth, autographe bilobé, m., Fr.) C. Pl.31(12) as *Autographa biloba*, H. Pl.28(24) as *A. biloba*, L.&P. Pl.2(1,2),4(12),F(1), R.&L. Fig.517 as *A. biloba*

Genus *Plusia* Ochsenheimer, 1816

- 8950 *putnami* Grt., 1873. (146) Det. J. R. Grehan, 1990. (Putnam's looper moth, plusie de Putnam, f., Fr.) C. Pl.32(3), H. Pl.28(15) as *Euchalcia putnami*, L.&P. Pl.1(54,55),4(20),H(8), R.&L. Fig.515 as *Chrysaspidia putnami*
- 8952 *contexta* Grt., 1873. (353) Det. J. R. Grehan, 1991. (connected looper moth) C. Pl.32(6), H. Pl.28(23) as *E. contexta*, L.&P. Pl.1(58,59),H(10), R.&L. Fig.516 as *C. contexta*
- 8953 *venusta* Wlk., 1865. (952) Det. M. Sabourin, 1992. (white-streaked looper moth, plusie gracieuse, f., Fr.) C. Pl.32(2), H. Pl.28(21) as *E. venusta*, L.&P. Pl.1(53),H(7), R.&L. Fig.538 as *C. venusta*

Genus *Pseudeva* Hampson, 1913

- 8899 *purpurigera* (Wlk., 1858). (859) Det. J. D. Lafontaine, 1991. (straight-lined looper moth, CW, plusie purpurine, f., Fr.) C. Pl.32(4), H. Pl.28(13) as *Panchrysis purpurigera*, L.&P. Pl.1(37,38),4(6),C(5), R.&L. Fig.528

Genus *Pseudoplusia* McDunnough, 1944

- 8890 *includens* (Wlk., 1858). (1001) Det. M. Sabourin, 1991. (soybean looper*, false cabbage looper) C. Pl.31(15), L.&P. Pl.1(11,12),4(3),A(8), R. Pl.13(11), R.&L. Fig.514 as *P. oo*

Genus *Rachiplusia* Hampson, 1913

- 8895 *ou* (Gn., 1852). (1073) Det. M. Sabourin, 1991. (gray looper moth) C. Pl.31(8), H. Pl.28(33) as *Autographa ou*, L.&P. Pl.1(21,22),B(5), R. Pl.13(13)

Genus *Syngrapha* Hübner, 1821

- 8940 *abstrusa* Eichlin, 1978. (449) Det. J. D. Lafontaine, 1991. L.&P. Pl.3(31-33),4(16),G(6), R. Pl.13(17)
- 8939 *alias* (Ottol., 1902). (960) Det. J. D. Lafontaine, 1991. (sruce climbing CW, autographe de l'épinette, m., Fr.) L.&P. Pl.3(34-36),G(7), R.&L. Fig.505
- 8927 *epigaea* (Grt., 1874). (1223) Det. J. R. Grehan, 1993. L.&P. Pl.3(13),4(14),F(7),O(5), R. Pl.13(15), R.&L. Fig.510
- 8926 *octoscripta* (Grt., 1874). (GRN) Det. J. D. Lafontaine, 1994. L.&P. Pl.3(6-8), 4(13),F(4),O(2), R. Pl.13(18), R.&L. Fig.508
- 8942 *rectangula* (W. Kby., 1837). (407) Det. J. R. Grehan, 1991. (salt-and-pepper moth, looper moth, angulated CW, autographe à rectangle, m., Fr.) C. Pl.31(1), H. Pl.28(32) as *Autographa rectangula*, L.&P. Pl.3(39-41),G(9), R. Pl.13(19), R.&L. Fig.504

Genus *Trichoplusia* McDunnough, 1944

- 8887 *ni* (Hbn., 1800-1803). (868) Det. J. D. Lafontaine, 1991. (cabbage looper*, ni moth, fausse-arpenteuse du chou, f., Fr.) C. Pl.31(10), H. Pl.28(36) as *Autographa brassicae* (Riley), L.&P. Pl.1(8,9),4(2),A(9), R.&L. Fig.513

Subfamily EUTELIINAE

Genus *Marathyssa* Walker, 1865

- 8956 *basalis* Wlk., 1865. (867) Det. M. Sabourin, 1991. (light marathyssa) C. Pl.28(24), H. Pl.29(5) as *Marasmalus ventilator*, R.&L. Fig.491
- 8955 *inficita* (Wlk., 1865). (537) Det. J. R. Grehan, 1991. (dark marathyssa) C. Pl.28(23), H. Pl.29(6) as *M. inflicta*, R.&L. Fig.492

Genus *Paectes* Hübner, 1818

- 8957 *oculatrix* (Gn., 1852). (JDH) Det. J. D. Hedbor, 1992. C. Pl.31(16), H. Pl.29(4), R.&L. Fig.493

Subfamily SARROTHRIPINAE

Genus *Baileya* Grote, 1895

- 8971 *dormitans* (Gn., 1852). (144) Det. D. F. Schweitzer, 1991. (sleeping baileya) C. Pl.31(22), R. Pl.10(37,38), R.&L. Fig.498
- 8969 *doubledayi* (Gn., 1852). (483) Det. J. R. Grehan, 1990. (Doubleday's baileya) C. Pl.31(18), R.&L. Fig.496
- 8970 *ophthalmica* (Gn., 1852). (188) Det. D. F. Schweitzer, 1991. (eyed baileya) C. Pl.31(23), H. Pl.17(25), Pl.17(26) as *B. doubledayi*, R.&L. Fig.497

Genus *Nycteola* Hübner, 1822 (leaf tiers)

- 8977 *cinereana* N. & D., 1893. (1430) Det. J. D. Lafontaine, 1994. (poplar leaf tier)
- 8975 *frigidana* (Wlk., 1863). (912) Det. J. D. Lafontaine, 1992. (frigid owlet, willow leaf tier, jieuse du saule, f., Fr.) C. Pl.30(25), H. Pl.42(15) as *N. lintnerana*, R.&L. Fig.495

Subfamily NOLINAE

Genus *Meganola* Dyar, 1898

- 8983 *minuscula* (Zell., 1872). (998) Det. J. D. Hedbor & M. Sabourin, 1991. (confused meganola) C. Pl.31(2,4), R. Pl.11(44,45)
- 8983.2 *spodia* Franc., 1985. (1202) Det. J. R. Grehan, 1993, ver. J. D. Lafontaine, 1994. R. Pl.11(43,50)

Genus *Nola* Leach, 1815

- 8990 *cilicoides* (Grt., 1873). (106) Det. J. R. Grehan, 1991. (blurry-patched nola) C. Pl.31(9), R. Pl.11(51)
- 8992 *triquetrana* (Fitch, 1856). (456) Det. J. D. Lafontaine, 1991. (three-spotted nola) C. Pl.31(6), H. Pl.13(25), R. Pl.11(48)

Subfamily ACONTIINAE

Genus *Acontia* Ochsenheimer, 1816

- 9145 *terminimaculata* (Grt., 1873). (GRN) Det. M. Sabourin, 1991. (curve-lined acontia) C. Pl.30(11), H. Pl.29(46) as *Tarache terminimaculata*, R.&L. Fig.490

Genus *Capis* Grote, 1882

- 9059 *curvata* Grt., 1882. (570) Det. D. F. Schweitzer, 1991. H. Pl.37(33), R.&L. Fig.486

Genus *Cerma* Hübner, 1818

- 9062 *cerintha* (Tr., 1826). (285) Det. J. R. Grehan, 1991. (tufted bird-dropping moth) C. Pl.30(8), H. Pl.29(43), R.&L. Fig.487 as *Chamyris cerintha*

Genus *Homophoberia* Morrison, 1875

- 9057 *apicosa* (Haw., 1809). (925) Det. J. R. Grehan, 1992 (black wedge-spot) C. Pl.29(19), H. Pl.29(27) as *Eustrotia apicosa*, R. Pl.13(22), R.&L. Fig.485

Genus *Hyperstrotia* Hampson, 1910

- 9037 *pervertens* (B. & McD., 1918). (762) Det. M. Sabourin & J. D. Lafontaine, 1991. (dotted graylet) C. Pl.28(19), R. Pl.11(54), R.&L. Fig.455 as *Cryphia pervertens*

- 9038 *villificans* (B. & McD., 1918). (1431) Det. J. D. Lafontaine, 1994. R.&L. Fig.456 as *Cryphia villificans* (white-lined graylet)

Genus *Leuconycta* Hampson, 1909

- 9065 *diphtheroides* (Gn., 1852). (283) Det. J. R. Grehan, 1991. (green leuconycta, goldenrod noctuid, noctuelle marbrée, f., Fr.) C. Pl.26(19), H. Pl.19(9,10) as *Microcoelia diphtheroides*, R.&L. Fig.407
- 9066 *lepidula* (Grt., 1874). (575) Det. J. R. Grehan, 1993. (noctuelle à marbrures vertes, f., Fr.) H. Pl.19(7) as *Jaspidia lepidula*, R.&L. Fig.408

Genus *Lithacodia* Hübner, 1818

- 9048 *albidula* (Gn., 1852). (669) Det. J. D. Lafontaine, 1991. H. Pl.29(22) as *Eustrotia albidula*, R.&L. Fig.461
- 9046 *bellicula* Hbn., 1818. (716) Det. J. R. Grehan, 1991. (bog lithacodia) C. Pl.30(3), H. Pl.29(30), R.&L. Fig.459
- 9047 *muscosula* (Gn., 1852). (79) Det. D. F. Schweitzer, 1991. (large mossy lithacodia) C. Pl.28(17), H. Pl.29(26) as *E. muscosula*, R.&L. Fig.460

Genus *Maliattha* Walker, 1863

- 9050 *concinimacula* (Gn., 1852). (160) Det. J. R. Grehan, 1991. (red-spotted lithacodia) C. Pl.30(24), H. Pl.29(23) as *E. concinimacula*, R.&L. Fig.463
- 9055.1 *synochitis* (G. & R., 1868). (293) Det. J. R. Grehan, 1991. (black-dotted lithacodia) C. Pl.30(4) as *Lithacodia synochitis*, H. Pl.29(24) as *E. synochitis*, R.&L. Fig.462 as *L. synochitis*

Genus *Pseudeustrotia* Warren, 1913

- 9053 *carneola* (Gn., 1852). (233) Det. J. R. Grehan, 1990. (pink-lined or pinkbarred lithacodia) C. Pl.30(7) as *Lithacodia carneola*, H. Pl.29(28) as *E. carneola*, R.&L. Fig.464 as *L. carneola*

Genus *Tarachidia* Hampson, 1898

- 9090 *candefacta* (Hbn., 1831). (623) Det. J. R. Grehan, 1991. (olive-shaded bird-dropping moth, ragweed false looper) C. Pl.30(19), R. Pl.14(16,17), R.&L. Fig.489
- 9095 *erastrioides* (Gn., 1852). (522) Det. J. R. Grehan, 1991. (small bird-dropping moth, ragweed false looper) C. Pl.30(17), H. Pl.29(54) as *Tarache erastrioides*, R.&L. Fig.489

Subfamily PANTHEINAE

Genus *Charadra* Walker, 1865

- 9189 *deridens* (Gn., 1952). (597) Det. M. Sabourin, 1991. (the laughter) C. Pl.16(18), H. Pl.18(4), R.&L. Fig.12

Genus *Colocasia* Ochsenheimer, 1816

- 9184 *flavicornis* (Sm., 1884). (5) Det. J. R. Grehan, 1990. (yellowhorn) C. Pl.16(15), R.&L. Fig.8
- 9185 *propinquilinea* (Grt., 1873). (227) Det. J. R. Grehan, 1991. (closebanded yellowhorn, closebanded demas) C. Pl.16(11), H. Pl.19(3) as *Demas propinquilinea*, R.&L. Fig.9

Genus *Panthea* Hübner, 1820

- 9177 *acronyctoides* (Wlk., 1861). (1090) Det. M. Sabourin, 1991. (tufted spruce cat., black zigzag, noctuelle marbrée de l'épinette, f., Fr.) C. Pl.16(17), R.&L. Fig.10
- 9182 *furcilla* (Pack., 1864). (72) Det. J. R. Grehan, 1991. (eastern panthea, tufted whitepine caterpillar, noctuelle du pin blanc, f., Fr.) C. Pl.16(20), H. Pl.17(31)

Genus *Raphia* Hübner, 1821

- 9193 *frater* Grt., 1864. (103) Det. J. R. Grehan, 1990. (the brother, yellowmarked cat., chenille à lignes transverses jaunes, f., Fr.) C. Pl.16(16), H. Pl.18(3), R.&L. Fig.19

Subfamily ACRONICTINAE

Genus *Acronicta* Ochsenheimer, 1816

- 9200 *americana* (Harr., 1841). (289) Det. J. R. Grehan, 1990. (American dagger moth*, acronycte d'Amérique, f., Fr.) C. Pl.17(3), H. Pl.18(12) as *Apatela americana*, R. Pl.4(4), R.&L. Fig.25
- 9203 *dactylina* Grt., 1874. (GRN) Det. M. Sabourin, 1993. (alder, or fingered dagger moth, acronycte de l'aulne, f., Fr.) C. Pl.13(19), H. Pl.18(17) as *A. dactylina*, R.&L. Fig.26
- 9242 *exilis* Grt., 1874. (GRN) Det. M. Sabourin, 1991, ver. J. D. Lafontaine, 1992. (exiled dagger moth) C. Pl.17(17), R. Pl.13(32)
- 9241 *fragilis* (Gn., 1852). (651) Det. J. D. Lafontaine, 1991. (fragile dagger moth, acronycte fragile, f., Fr.) C. Pl.17(20), H. Pl.19(1) as *A. fragilis*, R.&L. Fig.40
- 9212 *grisea* Wlk., 1856. (662) Det. J. D. Lafontaine, 1991. (gray dagger moth, acronycte grise, f., Fr.) C. Pl.17(2), H. Pl.18(11) as *A. grisea*, R.&L. Fig.28
- 9245 *haesitata* (Grt., 1882). (CTP) Det. M. Sabourin, 1991. (hesitant dagger moth) C. Pl.17(19), R.&L. Fig.44
- 9229 *hasta* Gn., 1852. (635) Det. J. E. Rawlins, 1991. (speared dagger moth, acronycte du cerisier, f., Fr.) C. Pl.17(15)
- 9257 *impleta* Wlk., 1856. (JDH) Det. J. D. Lafontaine, 1992. (yellow-haired dagger moth) C. Pl.18(7), H. Pl.18(22) as *Apatela impleta*, R.&L. Fig.53
- 9261 *impressa* Wlk., 1856. (872) Det. J. D. Lafontaine, 1991. H. Pl.18(21), Pl.18(23) as *A. brumosa*, R.&L. Fig.56 (acronycte impressionnée, f., Fr.)
- 9249 *incretata* Morr., 1974. (652) Det. J. D. Lafontaine, 1991, ver. D. F. Schweitzer, 1993. C. Pl.18(5) as *A. in clara*, R.&L. Fig.46 as *A. in clara*, 48 as *A. hamamelis*, 49.
- 9207 *innotata* Gn., 1852. (205) Det. J. R. Grehan, 1991. (unmarked dagger moth, birch dagger moth, acronycte du bouleau, f., Fr.) C. Pl.17(5), R. Pl.13(26), R.&L. Fig.21
- 9237 *interrupta* Gn., 1852. (GRN) Det. M. Sabourin, 1992. (interrupted or American grey dagger moth, acronycte des feuillus, f., Fr.) C. Pl.17(16), H. Pl.19(5) as *Apatela interrupta*, R. Pl.4(5), R.&L. Fig.39
- 9227 *laetifica* Sm., 1897. (1028) Det. J. D. Lafontaine, 1992. (pleasant dagger moth) C. Pl.17(13), R.&L. Fig.35
- 9205 *lepusculina* Gn., 1852. (1066) Det. J. R. Grehan, 1992 (cottonwood dagger moth*, acronycte du tremble, f., Fr.) C. Pl.13(17), H. Pl.18(14) as *A. lepusculina*, R.&L. Fig.20
- 9238 *lobeliae* Gn., 1852. (GRN) Det. M. Sabourin, 1991. (lobelia dagger moth) C. Pl.18(3), H. Pl.18(9) as *Apatela lobeliae*
- 9236 *morula* G. & R., 1868. (230) Det. J. R. Grehan, 1991. (ochre dagger moth, elm dagger moth, acronycte muriforme, f., Fr.) C. Pl.17(21), H. Pl.18(8) as *A. morula*, R.&L. Fig.42
- 9272 *oblinita* (J. E. Smith, 1797). (1094) Det. J. D. Lafontaine, 1994. (smearred dagger moth, acronycte souillée, f., Fr.) C. Pl.13(18), R.&L. Fig.57
- 9243 *ovata* Grt., 1873. (1399) Det. J. D. Lafontaine, 1994. R.&L. Fig.43.
- 9251 *retardata* (Wlk., 1861). (143) Det. D. F. Schweitzer, 1990. (retarded dagger moth, maple dagger moth) C. Pl.18(8), R.&L. Fig.51
- 9258 *sperata* Grt., 1873. (GRN) Det. J. D. Lafontaine, 1991. R.&L. Fig.54
- 9226 *superans* Gn., 1852. (637) Det. J. R. Grehan, 1991. C. Pl.17(10), H. Pl.18(26) as *A. superans*, R.&L. Fig.34
- 9247 *tristis* Sm., 1911. (1029) Det. J. D. Lafontaine, 1992. (sad dagger moth, acronycte triste, f. Fr.) R. Pl.14(5), R.&L. Fig.47
- 9225 *vinnula* (Grt., 1864). (871) Det. J. D. Lafontaine, 1991. (delightful dagger moth) C. Pl.17(8,11), H. Pl.18(25) as *Apatela vinnula*, R.&L. Fig.33

Genus *Agriopodes* Hampson, 1908

- 9281 *fallax* (H.-S., 1854). (1074) Det. J. R. Grehan, 1992. (the green marvel, merveille verte, f., Fr.) C. Pl.26(16), H. Pl.18(1) as *Diphthera fallax*, R.&L. Fig.409

Genus *Anterastria*

- 9284 *teratophora* (H.-S., 1854). (1411). Det. J. D. Lafontaine. R.&L. Fig.410 as *Agriopodes tetrastria*

Genus *Harrisimemna* Grote, 1873

- 9286 *tristignata* (Wlk., 1856). (712) Det. J. R. Grehan, 1991. (Harris' three-spot, noctuelle trois-taches, f.,

Fr.) C. Pl.18(13), H. Pl.19(4), R.&L. Fig.59

Genus *Polygrammate* Hbn., 1818

- 9285 *hebraicum* Hbn., 1818. (1470) Det. J. R. Grehan, 1994. C. Pl.28(1) R.&L. Fig.419 (the Hebrew)

Genus *Simyra* Ochsenheimer, 1816

- 9280 *henrici* (Grt., 1873). (634) Det. J. E. Rawlins, 1991. (Henry's marsh moth) C. Pl.18(14), H. Pl.18(6) as *Arsilonche albovenosa*, R.&L. Fig.60

Subfamily AGARISTINAE

Genus *Alypia* Hübner, 1818

- 9318 *langtoni* Couper, 1865. (JDH) Det. J. D. Hedbor, 1991, ver. J. E. Rawlins, 1991. (fireweed cat., Langton's forester, alypie de Langton, f., Fr.) H. Pl.17(16,17), R.&L. Fig.3,4
- 9314 *octomaculata* (F., 1775). (503) Det. J. Boone, 1990. (eight-spotted forester*, alypie à huit points, m., Fr.) C. Pl.15(16), H. Pl.17(20,21), R.&L. Fig.1,2

Genus *Eudryas* Boisduval, 1836

- 9301 *grata* (F., 1793). (344) Det. J. R. Grehan, 1991. (beautiful wood-nymph, belle nymphe des bois, f., Fr.) C. Pl.27(23), H. Pl.17(24) as *Euthisanotia unio*, R.&L. Fig.6
- 9299 *unio* (Hbn., 1827-31). (720) Det. J. D. Hedbor, 1991. (the pearly wood-nymph, nymphe perlée des bois, f., Fr.) C. Pl.27(25), H. Pl.17(23) as *E. grata*, R.&L. Fig.7

Genus *Psychomorpha* Harris, 1839

- 9309 *epimenis* (Drury, 1782). (334) Det. J. R. Grehan & J. Boone, 1991. (grapevine epimenis) C. Pl.29(1), H. Pl.3(9)

Subfamily AMPHIPYRINAE

Genus *Achatodes* Guenée, 1852

- 9520 *zeae* (Harr., 1841). (708) Det. J. R. Grehan, 1991. (elder shoot borer*, corn spindlegworm) C. Pl.27(11), H. Pl.26(1), R.&L. Fig.445

Genus *Amolita* Grote, 1874

- 9818 *fessa* Grt., 1874. (658) Det. J. D. Lafontaine, 1991. (feeble grass moth) C. Pl.27(16), H. Pl.29(13), R.&L. Fig.442

Genus *Amphipoea* Billberg, 1820

- 9457 *americana* (Speyer, 1875). (354) Det. J. R. Grehan, 1991. (American ear moth) C. Pl.26(2), H. Pl.26(2) as *Gortyna nictitans*, R.&L. Fig.369
- 9456 *interoceanica* (Sm., 1899). (1269) Det. M. Sabourin, 1991, ver. J. R. Grehan, 1994, ex. gen. (interoceanic ear moth) R.&L. Fig.370
- 9454 *velata* (Wlk., 1865). (573) Det. D. F. Schweitzer, 1990. (veiled ear moth) C. Pl.25(9), H. Pl.26(3) as *G. velata*, R.&L. Fig.368

Genus *Amphipyra* Ochsenheimer, 1816

- 9640 *glabella* (Morr., 1874). (1175) Det. M. Sabourin, 1992. H. Pl.20(32) as *Pyrophila glabella*, R.&L. Fig.420
- 9638 *pyramidoides* Gn., 1852. (425) Det. J. R. Grehan, 1990. (American copper underwing, pyramidal fruitworm, humped green fruitworm, noctuelle cuivrée, f., Fr.) C. Pl.26(17), H. Pl.20(30) as *P. pyramidoides*, R. Pl.5(1), R.&L. Fig.411
- 9639 *tragopoginis* (Cl., 1759). (707) Det. J. R. Grehan, 1991. H. Pl.20(31) as *P. tragopoginis*, R.&L. Fig.412

Genus *Apamea* Ochsenheimer, 1816 (*Agroperina* Hamp., 1908, *Crymodes* Gn., 1841)

- 9351 *alia* (Gn., 1852). (1376) Det. J. D. Lafontaine, 1994. R.&L. Fig.334
- 9348 *amputatrix* (Fitch, 1857). (367) Det. J. R. Grehan, 1990. (yellow-headed cutworm*, ver-gris à tête jaune, m., Fr.) C. Pl.24(18), H. Pl.19(45) as *Hadena arctica*, R.&L. Fig. 333
- 9382 *devastator* (Brace, 1819). (574) Det. D. F. Schweitzer, 1990. (glassy CW, ver-gris vitreux, m., Fr.) C.

- Pl.25(6) as *Crymodes devastator*, H. Pl.19(44) as *Hadena devastatrix*, R.&L. 345 as *C. devastator*
- 9367 *dubitans* (Wlk., 1856). (406) Det. J. D. Lafontaine, 1991. (doubful agroperina) C. Pl.25(3) as *Agroperina dubitans*, H. Pl.19(39) as *H. dubitans*, R.&L. Fig.341 as *A. dubitans*
- 9373 *helva* (Grt., 1875). (696) Det. M. Sabourin, 1991. (yellow three-spot) C. Pl.24(19), H. Pl.26(30) as *Orthosia helva*, R.&L. Fig.344 as *A. helva*
- 9360 *impulsa* (Gn., 1852). (560) Det. D. F. Schweitzer & E. L. Quinter, 1990. R.&L. Fig.336
- 9365 sp. near *lateritia* (Hufn., 1766). (DHM) Det. D. H. Miller, 1991. R.&L. Fig.340
- 9333 *lignicolora* (Gn., 1852). (145) Det. D. F. Schweitzer, 1991. (wood-colored apamea) C. Pl.25(4), H. Pl.20(5) as *Hadena lignicolora*, R. Pl.14(7), R.&L. Fig.330
- 9328 *nigrrior* (Sm., 1891). (GRN) Det. M. Sabourin, 1991. H. Pl.19(42) as *H. nigrrior*, R.&L. Fig.328
- 9362.1 *ophiogramma* (Esper. [1794]). (914) Det. J. D. Lafontaine, 1992.
- 9362a *remissa indocilis* (Wlk., 1856). (1438) Det. J. D. Lafontaine, 1991. (ignorant apamea) C. Pl.25(1), R.&L. Fig.335
- 9364 *sordens* (Hufn., 1766). (290) Det. J. R. Grehan, 1990. (bordered apamea, rustic shoulder knot) C. Pl.25(2) as *Apamea finitima*, H. Pl.20(9) as *Hadena basilinea*, R.&L. Fig.339 as *A. finitima*
- 9326 *verbascoides* (Gn., 1852). (654) Det. J. D. Lafontaine, 1991. H. Pl.19(43) as *H. verbascoides*, R.&L. Fig.327
- 9332 *vulgaris* (G. & R. 1866). (939) Det. J. R. Grehan, 1992. (common apamea) R. Pl.14(10)
- 9341 *vultuosa* (Grt., 1875). (641) Det. M. Sabourin, 1991. (airy apamea) H. Pl.20(11) as *H. vultuosa*, R. Pl.14(8), R.&L. Fig.331

Genus *Archanara* Walker, 1866

- 9451 *laeta* (Morr., 1875). (1316) Det. D. F. Schweitzer, 1993. (red sedge borer moth) R.&L. Fig.363
- 9449 *oblonga* (Grt., 1882). (1428) Det. J. D. Lafontaine, 1990. (oblong sedge borer moth, the large nonagria) C. Pl.25(8), H. Pl.25(33) as *Nonagria oblonga*, R.&L. Fig.383
- 9450 *subflava* (Grt., 1882). (913) Det. J. D. Lafontaine, 1992. (subflava sedge borer, the yellowish noagria) H. Pl.25(34) as *Nonagria subflava*, R.&L. Fig.362

Genus *Balsa* Walker, 1860

- 9664 *labecula* (Grt., 1880). (114) Det. J. R. Grehan, 1990. (white-blotohed balsa) C. Pl.28(6), R.&L. Fig.435
- 9662 *malana* (Fitch, 1856). (1247) Det. J. R. Grehan & ver. J. D. Lafontaine, 1993 (many-dotted appleworm) C. Pl.28(3), H. Pl.19(18), R. Pl.5(2), R.&L. Fig.433
- 9663 *tristrigella* (Wlk., 1866). (189) Det. J. R. Grehan, 1991. C. Pl.28(4), R.&L. Fig.440

Genus *Bellura* Walker, 1865

- 9523 *gortynoides* Wlk., 1865. (657) Det. J. D. Lafontaine, 1991. (white-tailed diver) C. Pl.28(14), R.&L. Fig.444 as *Bellura diffusa*
- 9525 *obliqua* (Wlk., 1865). (206) Det. J. R. Grehan, 1991. (cattail borer moth) C. Pl.28(18), H. Pl.25(36) as *Sphida obliqua*, R. Pl.15(21), R.&L. Fig.443 as *Arzama obliqua*

Genus *Calaena* Stephens, 1829

- 9453 *reniformis* (Grt., 1874). (1003) Det. T. L. McCabe, 1992. H. Pl.20(33,34) as *Helotropha reniformis*, R.&L. Fig.367 as *H. reniformis*

Genus *Callopietria* Hübner, 1821

- 9633 *cordata* (Ljungh, 1825). (287) Det. J. R. Grehan, 1991. (silver-spotted fern moth, noctuelle à taches argentées, f., Fr.) C. Pl.26(14), H. Pl.29(62) as *Metathorasa monetifera*, R.&L. Fig.401 as *Euherrichia monetifera*
- 9631 *mollissima* (Gn., 1852). (251) Det. J. R. Grehan, 1991. (pink-shaded fern moth, noctuelle à bandes rosées, f., Fr.) C. Pl.26(21), H. Pl.29(63) as *Euherrichia mollissima*, R.&L. Fig.400 as *Haplolophus mollissima*

Genus *Chortodes* Tutt, 1897

- 9437 *inquinata* (Gn., 1852). (1340) Det. D. C. Ferguson, 1993. R.&L. Fig.384 as *Hypocoena inquinata*

Genus *Chytonix* Grote, 1874

- 9556 *palliatricula* (Gn., 1852). (101) Det. J. R. Grehan, 1991. (cloaked marvel) C. Pl.25(14,17), H. Pl.19(13,14), R.&L. Fig.404

Genus *Condica* Walker, 1856

- 9696 *vecors* (Gn., 1852). (558) Det. D. F. Schweitzer, 1990. (dusky groundling) C. Pl.27(2) as *Platysenta vecors*, H. Pl.19(31) as *Perigea vecors*, R.&L. Fig.426 as *P. vecors*
- 9690 *videns* (Gn., 1852). (869) Det. M. Sabourin, 1991. (white dashed-dotted groundling) C. Pl.25(21) as *Platysenta videns*, H. Pl.19(21) as *P. videns*, R.&L. Fig.425 as *P. videns*

Genus *Conservula* Grote, 1874

- 9548 *anodonta* (Gn., 1852). (404) Det. J. R. Grehan, 1991. H. Pl.26(20), R.&L. Fig.399

Genus *Cosmia* Ochsenheimer, 1816

- 9815 *calami* (Harv., 1876). (1397) Det. M. Sabourin, 1990. (American dun-bar) C. Pl.27(21), H. Pl.27(1) as *Calymnia orina*, R.&L. Fig.441

Genus *Crambodes* Guenée, 1852

- 9661 *talidiformis* Gn., 1852. (1434) Det. J. D. Lafontaine, 1994. (verbena moth) C. Pl.28(2), H. Pl.19(17), R.&L. Fig.429

Genus *Dypterygia* Stephens, 1829

- 9560 *rozmani* Berio, 1974. (1072) Det. M. Sabourin, 1992. (american bird's-wing moth) C. Pl.25(16), H. Pl.20(28) as *Dypterygia scabriuscula*, R.&L. Fig.413

Genus *Elaphria* Hübner, 1818

- 9681 *festivoides* (Gn., 1852). (115) Det. J. R. Grehan, 1991. (festive midget) C. Pl.27(7), H. Pl.19(32), as *Oligia festivoides*, R. Pl.14(30,31,35,36) R.&L. Fig.427
- 9678 *versicolor* (Grt., 1875). (284) Det. J. R. Grehan, 1991. (variegated midget, fir harlequin cat., arlequin du sapin, m., Fr.) C. Pl.27(9), R. Pl.14(37), R.&L. Fig.465

Genus *Enargia* Hübner, 1821

- 9549 *decolor* (Wlk., 1858). (492) Det. J. R. Grehan, 1990. (aspen twoleaf tier, noctuelle décolorée, f., Fr.) R.&L. Fig.436
- 9550 *infumata* (Grt., 1874). (1436) Det. J. D. Lafontaine, R.&L. Fig.434 (birch-aspen noctuid)
- 9551 *mephisto* Franc., 1939. (668) Det. J. D. Lafontaine, 1991. R. Pl.15(23)

Genus *Euplexia* Stephens, 1829

- 9545 *benesimilis* McD., 1922. (58) Det. M. Sabourin, 1991 (American angle shades) C. Pl.26(22), H. Pl.20(26) as *Euplexia lucipara*, R.&L. Fig.396

Genus *Galgula* Guenée, 1852

- 9688 *partita* Gn., 1852. (626) Det. M. Sabourin, 1991. (the wedgling) C. Pl.27(13,14), H. Pl.29(31,32) as *G. hepara*, R.&L. Fig.432

Genus *Hydraecia* Guenée, 1841

- 9514 *micacea* (Esp., 1789). (858) Det. M. Sabourin, 1991. (potato stem borer, rosy rustic, perce-tige de la pomme de terre, m., Fr.) C. Pl.24(16), R.&L. Fig.385

Genus *Hyppa* Duponchel, 1845

- 9578 *xylinoides* (Gn., 1852). (96) Det. J. R. Grehan, 1990. (common hyppa, cranberry CW, noctuelle des atocas, f., Fr.) C. Pl.25(15), H. Pl.20(23), R.&L. Fig.424

Genus "*Hypocoena*" Hamp., 1908

- 9443 *defecta* (Grt., 1874). (1432) Det. J. D. Lafontaine, 1994 R.&L. Fig.365 as *Senta defecta*

Genus *Ipimorpha* Hübner, 1821

- 9555 *pleonectusa* Grt., 1873. (249) Det. D. F. Schweitzer, 1990. (even-lined sawfly, blackcheeked aspen)

cat., chenille à jouse noires, f., Fr.) C. Pl.25(11), H. Pl.27(3), R.&L. Fig.366

Genus *Lemmeria* Barnes and Benjamin, 1926

9429 *digitalis* (Grt., 1882). (785) Det. J. R. Grehan, 1991. H. Pl.26(25) as *Anchocelis digitalis*, R.&L. Fig.273

Genus *Luperina* Boisduval, 1828

9391 *passer* (Gn., 1852). (937) Det. J. R. Grehan, 1992. (dock rustic) C. Pl.25(5), H. Pl.19(36) as *Hadena passer*, R.&L. Fig.348

Genus *Macronoctua* Grote, 1874

9452 *onusta* Grt., 1874. (870) Det. M. Sabourin, 1991. (iris borer*, perceur de l'iris, m., Fr.) C. Pl.25(12), H. Pl.20(18), R.&L. Fig.402

Genus *Magusa* Walker, 1857

9637 *orbifera* (Wlk., 1857). (798) Det. J. E. Rawlins, 1991. (orbled narrow-wing) C. Pl.28(11), H. Pl.21(2) as *M. dissidens*, R.&L. Fig.438

Genus *Meropleon* Dyar, 1924

9427 *diversicolor* (Morr., 1874). (1238) Det. J. R. Grehan, 1993. R.&L. Fig.353 as *Oligia diversicolor*

Genus *Nedra* Clarke, 1940

9582 *ramosula* (Gn., 1852). (625) Det. M. Sabourin, 1991. (gray half-spot, CW) C. Pl.25(22), H. Pl.20(29) as *Actinotia ramosula*, R.&L. Fig.423

Genus *Ogdoconta* Butler, 1891

9720 *cinerea* (Gn., 1852). (817) Det. J. R. Grehan, 1991. (common pinkband) C. Pl.27(20), H. Pl.29(1), R.&L. Fig.447

Genus *Oligia* Hübner, 1821

9415 *bridghami* (G. & R., 1866). (719) Det. J. R. Grehan, 1991. (Bridgham's brocade) C. Pl.24(21), H. Pl.20(2) as *Hadena bridghami*, R.&L. Fig.351

9402 *chlorostigma* (Harv., 1876) (1410) Det. J. D. Lafontaine, 1994. H. Pl.20(13) as *H. chlorostigma*, R. Pl.14(22)

9410 *cryptora* (Franc., 1950). (1200) Det. J. D. Lafontaine, 1993. R. Pl.14(24)

9408 *exhausta* (Sm., 1903). (6) Det. D. F. Schweitzer, 1991. R. Pl.14(18), R.&L. Fig.382

9406 *fractilinea* (Grt., 1874). (918) Det. J. D. Lafontaine, 1992. (broken-lined brocade, lined stalk borer*) H. Pl.20(10) as *H. fractilinea*, R. Pl.14(19-21,25-27), R.&L. Fig.356

9420 *illocata* (Wlk., 1857). (158) Det. D. F. Schweitzer, 1990. (wandering brocade) C. Pl.25(7), H. Pl.20(24) as *Dryobota illocata*, R.&L. Fig.354

9419 *mactata* (Gn., 1852). (550) Det. D. F. Schweitzer, 1990. H. Pl.20(8) as *Hadena mactata*, R.&L. Fig.355

9416 *minuscule* (Morr., 1874). (1237) Det. J. R. Grehan, 1993. R.&L. Fig.352

9404 *modica* (Gn., 1852). (765) Det. M. Sabourin, 1991. (black-barred brocade) C. Pl.24(23), H. Pl.20(14) as *H. modica*, R.&L. Fig.349

94.. n. sp. (near *tonsa* (Grt., 1880) 9413). (656) Det. J. D. Lafontaine, 1991.

Genus *Papaipema* J. B. Smith, 1899

9493 *appassionata* (Harv., 1876). (1235) Det. J. R. Grehan, 1993. (pitcher-plant borer moth) C. Pl.26(1), R.&L. Fig.374

9471 *arctivorens* Hamp., 1910. (1204) Det. J. D. Hedbor & ver. D. F. Schweitzer, 1991. (northern burdock borer) R. Pl.15(6), R.&L. Fig.388

9485 *baptisiae* (Bird, 1902). (1281) Det. D. F. Schweitzer, 1993. R. Pl.15(5)

9486 *birdi* (Dyar, 1908) (1092) Det. D. F. Schweitzer, 1993. (wild parsnip borer, waterhemlock borer) H. Pl.26(11) as *P. marginidens*, R. Pl.15(3), R.&L. Fig.376 as *P. marginidens*

9466 *cataphracta* (Grt., 1864). (1075) Det. D. F. Schweitzer, 1992. (burdock borer*, perce-tige de la bardane, m., Fr.) C. Pl.26(11), H. Pl.26(6), R.&L. Fig.394

9501 *eupatorii* (Lyman, 1905). (1201) Det. M. Sabourin, ver. D. F. Schweitzer, 1993. (Joe-pye weed borer) R.&L. Fig.417

9495 *furcata* (Sm., 1899). (795) Det. J. D. Hedbor, 1990, ver. D. F. Schweitzer, 1991. H. Pl.26(14), R.&L. Fig.387

9473 *impecuniosa* (Grt., 1881). (788) Det. D. F. Schweitzer, 1991. (aster borer) H. Pl.26(5) as *P. inquaesita*, R.&L. Fig.390

9483 *inquaesita* (G. & R., 1868). (493) Det. D. F. Schweitzer, 1990. (sensitive fern borer moth) C. Pl.26(5), R.&L. Fig.375

9478 *leucostigma* (Harr., 1841). (JDH) Det. D. F. Schweitzer, 1990. (columbine borer*, perce-tige de l'ancolie, f., Fr.) H. Pl.26(7) as *P. purpurifascia*, R.&L. Fig.391 as *P. purpurifascia*

9479 *lysimachiae* Bird, 1914. (784) Det. E. L. Quinter, 1994. R.&L. Fig.392

9502 *nelita* (Stkr., 1898). (988) Det. E. L. Quinter, 1991. R. Pl.15(16), R.&L. Fig.415

9490 *nepheleptena* (Dyar, 1908). (1280) Det. D. F. Schweitzer, 1993. R.&L. Fig.377

9480 *pterisii* Bird, 1907. (473) Det. D. F. Schweitzer, 1991. (braken borer moth) C. Pl.26(4), R.&L. Fig.393

9503 *rigida* (Grt., 1877). (255) Det. D. F. Schweitzer, 1991. (rigid sunflower borer M.) C. Pl.26(9)

9482 *speciosissima* (G. & R., 1868). (1250) Det. J. R. Grehan & ver. D. F. Schweitzer, 1993. (osmunda borer moth) C. Pl.26(3)

9509 *unimoda* (Sm., 1894), form *thalictri* (Lyman, 1905). (559) Det. E. L. Quinter, 1991. (meadowrue borer) R. Pl.15(18-20), R.&L. Fig.395 as *P. frigida*

9480.1 n. sp.; *pterisii* complex. (57) Det. D. F. Schweitzer, 1990. (Ostrich fern borer)

Genus *Phlogophora* Treitschke, 1825

9546 *iris* Gn., 1852. (210) Det. J. R. Grehan, 1990 (olive angle shades) C. Pl.26(13), H. Pl.26(19) as *Brotolomia iris*, R.&L. Fig.397

9547 *periculosa* Gn., 1852. (502) Det. J. R. Grehan, 1990. (brown angle shades) C. Pl.25(10), H. Pl.26(18) as *Trigonophora v-brunneum*, R.&L. Fig.398

Genus *Platyperigea* Sm., 1849

9657 *multifera* (Wlk., 1857). (778) Det. M. Sabourin, 1991. (speckled rustic) C. Pl.28(1) as *Platyperigea multifera*, H. Pl.19(29), R.&L. Fig.428 as *P. multifera*

Genus *Properigea* Barnes and Benjamin, 1926

9589 *?costa* (B. & Benj., 1923). (PMY) Det. D. F. Schweitzer, 1991.

Genus *Protogrotis* Hampson, 1903

9374 *niveivenosa* (Grt., 1879). (GRN) Det. M. Sabourin, 1992. R.&L. Fig.347

Genus *Proxenus* H.-S., 1850

9647 *miranda* (Grt., 1873). (621) Det. J. R. Grehan, 1991. (miranda moth, dandelion CW) C. Pl.27(19) H. Pl.19(20) as *Orthodes vecors*, R.&L. Fig.430

Genus *Rhizedra* Warren, 1911

9395.1 *lutosa* (Hbn., 1803). (1339) Det. D. F. Schweitzer, 1993.

Genus *Spartiniphaga* McD., 1937

9436 *panatela* (Sm., 1904). (1441). Det. J. D. Lafontaine, 1994. R.&L. Fig.430

Genus *Spodoptera* Guenée, 1852

9665 *exigua* (Hbn., 1803-08). (855) Det. M. Sabourin, 1991. (beet armyworm, small mottled willow moth, asparagus fern cat.) C. Pl.28(15)

9666 *frugiperda* (J. E. Smith, 1797). (773) Det. J. R. Grehan, 1991. (fall armyworm*, légionnaire d'automne, f., Fr.) C. Pl.28(9,12), H. Pl.20(37), and Fig.(97,98) as *Laphygma frugiperda*, R. Pl.5(3), R.&L. Fig.437

9669 *ornithogalli* (Gn., 1852). (CTP) Det. M. Sabourin, 1991. (yellow-striped armyworm*, sweetpotato cat., cotton CW) C. Pl.28(7), H. Pl.20(35) as *Prodenia ornithogalli*, R. Pl.5(4), R.&L. Fig.439

Genus *Trachea* Ochsenheimer, 1816

9626 *delicata* (Grt., 1874). (1440) Det. J. D. Lafontaine, 1992. H. Pl.20(27), R.&L. Fig.403

Genus *Xylomoia* Staudinger, 1892

9433 *chagnoni* B. & McD., 1917. (1315) Det. D. F. Schweitzer, 1993. R.&L. Fig.359

Subfamily CUCULLIINAE

Genus *Adita* Grote, 1874

10067 *chionanthi* (J. E. Smith, 1797). (535) Det. J. R. Grehan, 1991. (fringe-tree sawfly) C. Pl.23(8), H. Pl.21(10), R.&L. Fig.249

Genus *Anathix* Franclemont, 1937

9962 *puta* (G. & R., 1868). (543) Det. D. F. Schweitzer, 1990. (puta sawfly, poplar catkin moth, chenille des fleurs du tremble, f., Fr.) R.&L. Fig.324

9961 *ralla* (G. & R., 1868). (497) Det. J. R. Grehan, 1990. (dotted sawfly) C. Pl.24(20), R.&L. Fig.323

Genus *Calophasia* Stephens, 1829

10177 *lunula* (Hufn., 1766). (815) Det. D. F. Schweitzer, 1991. R. Pl.15(25)

Genus *Catabena* Walker, 1865

10033 *lineolata* Wlk., 1865. (646) Det. J. E. Rawlins, 1991. (fine-lined sawfly) C. Pl.28(10), H. Pl.19(15), R.&L. Fig.446

Genus *Chaetagnathia* Franclemont, 1943

9950 *sericea* (Morr., 1874). (953) Det. M. Sabourin, 1992. (silky sawfly) C. Pl.23(21), H. Pl.26(36) as *Glaea sericea*, R. Pl.16(10), R.&L. Fig.275

Genus *Copivaleria* Grote, 1883

10021 *grotei* (Morr., 1874). (297) Det. J. D. Hedbor, 1991. (Grote's sawfly) C. Pl.23(6), H. Pl.21(14) as *Psaphidia grotei*, R.&L. Fig.264

Genus *Cucullia* Schrank, 1802

10200 *asteroides* Gn., 1852. (804) Det. M. Sabourin, 1991. (the asteroid) C. Pl.23(3), H. Pl.25(27), R.&L. Fig.243

10202 *convexipennis* G. & R., 1868. (948) Det. M. Sabourin, 1991. (brown-hooded owlet, brown-bordered cucullia, aster CW, cucullie de l'aster, f., Fr.) C. Pl.23(4), H. Pl.25(29), R.&L. Fig.244

10197 *florea* Gn., 1852. (DFS) Det. D. F. Schweitzer, 1988. R.&L. Fig.240

10194 *intermedia* Speyer, 1870. (375) Det. J. R. Grehan, 1991. (intermediate cucullia, goldenrod CW, cucullie de la verge d'or, f., Fr.) C. Pl.23(1), H. Pl.25(30), R.&L. Fig.239 as *C. intermedia*

10199 *omissa* Dod, 1916. (DHM) Det. W. J. Kiel, 1992. R.&L. Fig.234

10198 *postera* Gn., 1852. (GRN) Det. J.D.Lafontaine, 1992. (aster CW) R.&L. Fig.242

Genus *Epiglaea* Grote, 1878

9947 *apiata* (Grt., 1874). (1046) Det. M. Sabourin, 1991. (pointed sawfly) R.&L. Fig.310

9946 *decliva* (Grt., 1874). (911) Det. J. R. Grehan & ver. D. F. Schweitzer, 1993. (sloping sawfly) C. Pl.23(17), H. Pl.26(40), R.&L. Fig.309

Genus *Eucirroedia* Grote, 1875

9952 *pampina* (Gn., 1852). (495) Det. J. R. Grehan, 1991. (scalloped sawfly) C. Pl.24(15), H. Pl.26(21), R.&L. Fig.325

Genus *Eupsilia* Hübner, 1821

9939 *devia* (Grt., 1875). (591) Det. J. R. Grehan, 1991. (lost sawfly) C. Pl.24(13), H. Pl.26(42) as *Scopelosoma devia*, R.&L. Fig.319

9936 *morrisoni* (Grt., 1874). (590) Det. J. R. Grehan & M. Sabourin, 1991. (Morrison's sawfly) C. Pl.23(18), R. Pl.6(4), R.&L. Fig.318

9935 *tristigmata* (Grt., 1877). (587) Det. D. F. Schweitzer, 1991. (three-spotted sawfly, chenille veloutée, f., Fr.) R.&L. Fig.316

9933 *vinulenta* (Grt., 1864). (588) Det. D. F. Schweitzer, 1991. (straight-toothed sawfly) C. Pl.24(12), R.&L.

Fig.317

9933.2 n. sp. near *sidus* (Gn., 1852). (589) Det. D. F. Schweitzer, 1993. (*sidus* sawfly)

Genus *Feralia* Grote, 1874

10008 *comstocki* (Grt., 1874). (3) Det. J. R. Grehan, 1989. (Comstock's sawfly, redlined conifer cat., féralie de Comstock, f., Fr.) C. Pl.24(2), R.&L. Fig.263

10005 *jocosa* (Gn., 1852). (447) Det. J. D. Lafontaine, 1991. (Jocose sawfly, the joker redlined conifer cat., féralie joyeuse, f., Fr.) H. Pl.17(32), R.&L. Fig.261

10007 *major* Sm., 1890. (288) Det. J. D. Hedbor, 1990, ver. D. F. Schweitzer, 1991. (major sawfly, redlined conifer cat.) R.&L. Fig.262

Genus *Hillia* Grote, 1883

9967 *iris* (Zett., 1839). (MSG) Det. D. F. Schweitzer, 1994. R.&L. Fig.260

Genus *Homoglaea* Morrison, 1876

9881 *hircina* (Morr., 1876). (556) Det. D. F. Schweitzer, 1990. (goat sawfly, noctuelle hircine, f., Fr.) C. Pl.25(20), H. Pl.26(39), R.&L. Fig.332

Genus *Litholomia* Grote, 1875

9884 *napaea* (Morr., 1874). (1446) Det. E. L. Quninter, 1994. H. Pl.25(22), R.&L. Fig.268

Genus *Lithomoia* Hübner, 1821

9878 *germana* (Morr., 1874). (949) Det. M. Sabourin, 1993. (goldenrod brindle) H. Pl.25(12), R.&L. Fig.269 as *L. solidaginis*

Genus *Lithophane* Hübner, 1821

9891 *amanda* (Sm., 1900). (1177) Det. J. D. Lafontaine, 1993. R.&L. Fig.285

9910 *antennata* (Wlk., 1858). (593) Det. D. F. Schweitzer, 1992. (greenfruitworm*, ashen pinion, noctuelle des fruits verts, f., Fr.) C. Pl.23(15), R. Pl.6(1), R.&L. Fig.290

9902 *baileyi* Grt., 1877. (52) Det. D. F. Schweitzer, 1991. (Bailey's pinion) C. Pl.23(12), H. Pl.25(19) as *Xylina baileyi*, R.&L. Fig.289

9887 *bethunei* (G. & R., 1868). (138) Det. J. D. Hedbor, 1991, ver. D. F. Schweitzer, 1994. (Bethune's pinion) C. Pl.24(5), R. Pl.5(6), R.&L. Fig.281

9892 *disposita* Morr., 1874. (583) Det. M. Sabourin, 1991. H. Pl.25(13) as *X. disposita*, R.&L. Fig.286

9917 *fagina* Morr., 1874. (594) J. R. Grehan & J. D. Hedbor, 1991. R.&L. Fig.295

9913 *georgii* Grt., 1875. (DHM) Det. W. Kiel, 1991. R.&L. Fig.291

9915 *grotei* Riley, 1882. (39) Det. D. F. Schweitzer, 1991. (Grote's pinion, green fruitworm, noctuelle cendrée, f., Fr.) C. Pl.23(16), R.&L. Fig.288

9893 *hemina* Grt., 1874. (598) Det. D. F. Schweitzer, 1991. (Hemina pinion, noctuelle binuancée, f., Fr.) C. Pl.24(4), H. Pl.25(9) as *Xylina petulca*, R.&L. Fig.287

9888 *innominata* (Sm., 1893). (586) Det. D. F. Schweitzer, 1993. (nameless pinion, noctuelle sans nom, f., Fr.) C. Pl.24(7), H. Pl.25(10) as *X. innominata*, R.&L. Fig.282

9914 *laticinerea* Grt., 1874. (1174) Det. J. D. Lafontaine, 1993. (green fruitworm) H. Pl.25(17) as *X. laticinerea*, R. Pl.6(2), R.&L. Fig.292

9894 *oriunda* Grt., 1874. (1313) Det. D. F. Schweitzer, 1993. R.&L. Fig.293

9886 *patefacta* (Wlk., 1858). (582) Det. D. F. Schweitzer, 1991. R.&L. Fig.280

9889 *petulca* Grt., 1874. (595) Det. D. F. Schweitzer, 1993. (wanton pinion) C. Pl.23(13,24(6)), R.&L. Fig.283,284

9922 *pexata* Grt., 1874. (603) Det. D. F. Schweitzer, 1993. H. Pl.25(20) as *X. pexata*, R.&L. Fig.296

9885 *semiusta* Grt., 1874. (584) Det. D. F. Schweitzer, 1993. R.&L. Fig.279

9916 *unimoda* (Lint., 1878). (585) Det. J. D. Lafontaine, 1991. (dowdy pinion) C. Pl.23(14), H. Pl.25(16) as *X. unimoda*, R.&L. Fig.294

Genus *Metaxaglaea* Franclemont, 1937

9943 *inulta* (Grt., 1874). (800) Det. M. Sabourin & ver. J. E. Rawlins, 1991. (unsated sawfly) C. Pl.23(20), H. Pl.26(37) as *Glaea inulta*, R.&L. Fig.311

Genus *Oncocnemis* Lederer, 1853

- 10123 *piffardi* (Wik., 1862). (772) Det. J. R. Grehan, 1991. (black-banded oncocnemis, noctuelle à bandes noires, f., Fr.) H. Pl.21(3) as *O. atrifasciana*, R.&L. Fig.246
10099 *saundersiana* Grt., 1876. (789) Det. J. D. Lafontaine, 1991. R.&L. Fig.245

Genus *Pachypolia* Grote, 1874

- 9992 *atricornis* Grt., 1874. (851) Det. J. D. Lafontaine, 1992. R. Pl.15(32)

Genus *Platypolia* Grote, 1895

- 9976 *anceps* (Steph., 1850). (176) Det. J. E. Rawlins, 1991. R.&L. Fig.302

Genus *Psaphida* Walker, 1865

- 10012 *electilis* (Morr., 1875). (1267) Det. M. S. Griggs & ver. D. F. Schweitzer, 1993. C. Pl.23(7) as *Eutolype electalis*, H. Pl.21(13) as *E. bombyciformis*
10019 *resumens* Wik., 1865. (448) Det. J. D. Lafontaine, 1991. (figure-eight sawfly) C. Pl.27(10), H. Pl.21(15)
10014 *rolandi* (Grt., 1874). (608) Det. J. E. Rawlins & M. Sabourin, 1991. (Roland's sawfly) C. Pl.23(10) as *Eutolype rolandi*, R.&L. Fig.258 as *E. rolandi*

Genus *Pyreferra* Franclemont, 1937

- 9930 *citrombra* Franc., 1941. (596) Det. D. F. Schweitzer, 1991. R.&L. Fig.276
9929 *hesperidago* (Gn., 1852). (376) Det. J. R. Grehan & M. Sabourin, 1991. (mustard sawfly) C. Pl.24(10), H. Pl.26(33) as *Scopelosoma moffatiana*, R.&L. Fig.312 as *P. indirecta*
9932 *pettiti* (Grt., 1874). (137) Det. D. F. Schweitzer, 1991. R.&L. Fig.314

Genus *Sunira* Franclemont, 1950

- 9957 *bicolorago* (Gn., 1852). (496) Det. D. F. Schweitzer, 1990. (bicolored sawfly, CW) C. Pl.24(17), H. Pl.26(29) as *Orthosia bicolorago*, R.&L. Fig.321

Genus *Sutyna* Todd, 1958

- 9989 *privata* (Wik., 1857). (1266) Det. M. Sabourin, 1991, ver. D. F. Schweitzer, 1993. H. Pl.23(16) as *Anytus privatus*, R. Pl.15(27), R.&L. Fig.306

Genus *Xanthia* Ochsenheimer, 1816

- 9965.- sp. near *togata* (Esp., 1788) (9965). (481) Det. J. R. Grehan, 1990. (pink-barred xanthia or sawfly, xanthie jaune tachetée, f., Fr.) C. Pl.24(11) as *X. togata*, H. Pl.26(16) as *X. flavago*, R.&L. Fig.322 as *X. lutea*

Genus *Xylena* Ochsenheimer, 1816

- 9874 *curvimacula* (Morr., 1874). (36) Det. J. R. Grehan, 1991. (dot-and-dash swordgrass moth) C. Pl.24(9), H. Pl.25(23) as *Calocampa curvimacula*, R. Pl.5(5), R.&L. Fig.299
9873 *nupera* (Lint., 1874). (139) Det. M. Sabourin, 1991. (American or red swordgrass moth) H. Pl.25(24) as *C. nupera*, R.&L. Fig.298

Genus *Xylotype* Hampson, 1906

- 9980 *acadia* B. & Benj., 1922. (1455) Det. D. F. Schweitzer, 1994. (acadian sawfly) R.&L. Fig.298
9979 *capax* (Grt., 1868). (1447) Det. D. F. Schweitzer, 1993. (broad sawfly) C. Pl.23(19).

Subfamily HADENINAE

Genus *Achatia* Hübner, 1813

- 10518 *distincta* Hbn., 1813. (4) Det. D. F. Schweitzer, 1990. (distinct quaker) C. Pl.21(8), R.&L. Fig.172

Genus *Aletia* Hübner, 1821

- 10436 *oxygala* (Grt., 1881). (97) Det. D. F. Schweitzer, 1990. H. Pl.24(41) as *Heliophila minorata*, R.&L. Fig.237

Genus *Anarta* Ochsenheimer, 1816

- 10332.c *luteola* G. & R., 1865. (1388) Det. J. D. Hedbor, 1990, ver. D. F. Schweitzer, 1991. (small dark yellow underwing) H. Pl.24(28), R.&L. Fig.203

Genus *Crocigrapha* Grote, 1875

- 10501 *normani* (Grt., 1874). (653) Det. D. F. Schweitzer, 1990. (Norman's quaker, climbing cherry CW, noctuelle du cerisier, f., Fr.) C. Pl.22(13), H. Pl.24(43), R.&L. Fig.226

Genus *Discestra* Hampson, 1905

- 10223 *trifolii* (Hufn., 1766). (916) Det. J. D. Lafontaine, 1992. (clover CW, nutmeg, ver-gris du trèfle, f., Fr.) C. Pl.21(3), H. Pl.23(29) as *Mamestra trifolii*, R.&L. Fig.158 as *Scotogramma trifolii*

Genus *Egira* Duponchel, 1845

- 10513 *dolosa* (Grt., 1880). (609) Det. J. E. Rawlins, 1991. (a woodling, lined black aspen cat., noctuelle affligée, f., Fr.) H. Pl.24(20) as *Xylomiges dolosa*, R.&L. Fig.222 as *X. dolosa*

Genus *Faronta* J. B. Smith, 1908

- 10431 *diffusa* (Wik., 1856). (374) Det. D. F. Schweitzer, 1990. (wheat head armyworm*, légionnaire des épis de blé, f., Fr.) C. Pl.22(14), H. Pl.24(34) as *Heliophila albilinea*, R.&L. Fig.228

Genus *Hadena* Schrank, 1802

- 10317 *capsularis* (Gn., 1852). (GRN) Det. M. Sabourin, 1992. (capsule moth) C. Pl.21(11) as *Anepia capsularis*, R.&L. Fig.209 as *A. capsularis*

Genus *Himella* Grote, 1875

- 10502 *intractata* (Morr., 1874). (JDH) Det. J. D. Hedbor, 1991. (intractable quaker, fourlined green fruitworm) C. Pl.21(21), R. Pl.7(3)

Genus *Homorthodes* McDunnough, 1943

- 10532 *furfurata* (Grt., 1875). (666) Det. J. D. Lafontaine, 1991. (scurfy quaker) R. Pl.16(18), R.&L. Fig.214

Genus *Lacanobia* Billberg, 1820

- 10297 *atlantica* (Grt., 1874). (659) Det. J. D. Lafontaine, 1991. R.&L. Fig.173 as *Polia atlantica*
10298 *radix* (Wik., 1857). (TLM) Published record. (McCabe, 1980) (*radix* CW) H. Pl.23(25) as *Mamestra radix*, R.&L. Fig.180 as *P. radix*
10299 *subjuncta* (G. & R., 1868). (1248) Det. J. D. Lafontaine, 1993. (speckled CW) C. Pl.21(15), H. Pl.23(27) as *M. subjuncta*, R. Pl.6(6), R.&L. Fig.176 as *P. subjuncta*

Genus *Lacinipolia* McDunnough, 1937

- 10414 *implicata* McD., 1937. (166) Det. J. R. Grehan, 1990, ver. D. F. Schweitzer, 1991. (implicit arches) C. Pl.20(16,18), R.&L. Fig.163
10405 *lorea* (Gn., 1852). (645) Det. J. R. Grehan, 1991. (bridled arches) C. Pl.20(21), H. Pl.24(2) as *Mamestra lorea*, R.&L. Fig.198
10370 *lustralis* (Grt., 1875). (1439) Det. J. D. Lafontaine, 1994 R.&L. Fig.194 (cw)
10368 *meditata* (Grt., 1873). (873) Det. M. Sabourin, 1991. (pinkbacked CW, the thinker, ver-gris rosé, m., Fr.) C. Pl.21(18), H. Pl.23(21) as *M. meditata*, R.&L. Fig.193
10406 *olivacea* (Morr., 1874). (506) Det. J. R. Grehan, 1991. (olive arches, dandelion CW) C. Pl.20(14), H. Pl.23(37) as *M. olivacea*, R.&L. Fig.199
10397 *renigera* (Steph., 1829). (373) Det. J. R. Grehan, 1991. (bristly cutworm*) C. Pl.20(11), H. Pl.23(35) as *M. renigera*, R. Pl.7(1), R.&L. Fig.197

Genus *Lasionycta* Aurivillius, 1892

- 10336 *taigata* Lafontaine, 1988. (NYSM) Det. J. D. Lafontaine, 1988.

Genus *Leucania* Ochsenheimer, 1816

- 10447 *commoides* Gn., 1852. (987) Det. M. Sabourin, 1991. H. Pl.24(42) as *Heliophila commoides*, R.&L. Fig.232
10459 *inermis* (Fbs., 1936). (CTP) Det. M. Sabourin, 1991. (unmarked wainscot, unarmed wainscot) C.

- Pl.22(20), R.&L. Fig.231
 10449 *insueta* Gn., 1852. (915) Det. J. D. Lafontaine, 1992. R.&L. Fig.235
 10446.1 *?lapidaria* (Grt., 1876). (370) Det. D. F. Schweitzer, 1990. H. Pl.24(39) as *H. multilinea*
 10446 *multilinea* Wlk., 1856. (DHM) Det. W. J. Kiel, 1992. (many-lined wainscot) C. Pl.22(17), R.&L. Fig.241
 10462 *pseudargyria* Gn., 1852. (361) Det. J. R. Grehan, 1991. (false wainscot) C. Pl.22(21), H. Pl.24(47)
 as *H. pseudargyria*, R.&L. Fig.229

Genus *Melanchra* Hübner, 1820

- 10292 *adjuncta* (Gn., 1852). (202) Det. J. R. Grehan, 1990. (hitched arches or mamestra, chenille à taches triangulaires, f., Fr.) C. Pl.20(12), H. Pl.23(38) as *Mamestra adjuncta*, R.&L. Fig.185 as *Polia adjuncta*
 10295 *assimilis* (Morr., 1874). (507) Det. J. R. Grehan, 1991. (black arches) C. Pl.21(19), R.&L. Fig.186 as *P. assimilis*
 10293 *picta* (Harr., 1841). (1156) Det. J. R. Grehan, 1992. (zebra caterpillar, chenille zébrée, f., Fr.) C. Pl.22(3), H. Pl.23(34) as *M. picta*, R. Pl.6(5), R.&L. Fig.227 as *Ceramica picta*
 10294 *pulverulenta* (Sm., 1888). (TLM) Published record. (McCabe, 1980) R.&L. Fig.187 as *P. pulverulenta*

Genus *Morrisonia* Grote, 1874

- 10521 *confusa* (Hbn., 1827-31). (253) Det. D. F. Schweitzer, 1991. (confused woodgrain, chenille pointillée, f., Fr.) C. Pl.22(9), H. Pl.24(15), R.&L. Fig.221
 10520 *evicta* (Grt., 1873). (27) Det. D. F. Schweitzer, 1991. (bicolored woodgrain) C. Pl.22(12), H. Pl.24(13,14) as *M. sectilis*, R.&L. Fig.220
 10521.1 *latex* (Gn., 1852). (68) Det. J. R. Grehan, 1991. (fluid arches or mamestra, chenille latex, f., Fr.) C. Pl.21(16) as *Polia latex*, H. Pl.23(40) as *Mamestra latex*, R.&L. Fig.178 as *P. latex*

Genus *Nephelodes* Guenée, 1852

- 10524 *minians* Gn., 1852. (482) Det. J. R. Grehan, 1991. (bronzed cutworm*, ver-gris bronzé, m., Fr.) C. Pl.22(15), H. Pl.24(33), R. Pl.7(4), R.&L. Fig.219

Genus *Orthodes* Guenée, 1852

- 10585 *crenulata* (Butler, 1890). (22) Det. J. R. Grehan, 1990. (rustic quaker) C. Pl.22(1), H. Pl.24(37), R.&L. Fig.216
 10587 *cynica* Gn., 1852. (541) Det. D. F. Schweitzer, 1991. (cynical quaker) C. Pl.22(8), H. Pl.24(38), R.&L. Fig.217
 10589.1 *detracta* (Wlk., 1857). (572) Det. D. F. Schweitzer, 1991. (disparaged arches) C. Pl.21(14) as *Polia detracta*, H. Pl.23(24) as *Mamestra detracta*, R.&L. Fig.190 as *P. detracta*
 10589.2 *goodelli* (Grt., 1875). (801) Det. D. F. Schweitzer, 1991. (Goodell's arches) C. Pl.21(17) as *Polia goodelli*, R.&L. Fig.191 as *P. goodelli*
 10589.3 *obscura* (Sm., 1888). (1251) Det. J. D. Lafontaine, 1993. R.&L. Fig.192 as *P. obscura*

Genus *Orthosia* Ochsenheimer, 1816

- 10491 *alurina* (Sm., 1902). (457) Det. J. E. Rawlins, 1991. (gray quaker) C. Pl.22(7)
 10495 *hibisci* (Gn., 1852). (547) Det. D. F. Schweitzer, 1991. (speckled green fruitworm, orthosie verte, f., Fr.) C. Pl.22(4), H. Pl.25(3) as *Graphiphora alia*, R. Pl.7(2), R.&L. Fig.225
 10490 *revicta* (Morr., 1876). (546) Det. D. F. Schweitzer, 1991. (subdued quaker, rusty whitesided cat., orthosie gris-vert, f., Fr.) R.&L. Fig.224
 10487 *rubescens* (Wlk., 1865). (545) Det. D. F. Schweitzer, 1990. (ruby quaker, orthosie rousse, f., Fr.) C. Pl.22(10), R.&L. Fig.223

Genus *Polia* Ochsenheimer, 1816

- 10276 *imbrifera* (Gn., 1852). (480) Det. D. F. Schweitzer, 1990. (cloudy arches) C. Pl.21(7), H. Pl.23(32) as *Mamestra imbrifera*, R.&L. Fig.174
 10275 *nimbosa* (Gn., 1852). (360) Det. J. D. Hedbor, 1991. (stormy arches) C. Pl.21(10), R.&L. Fig.155
 10280 *purpurissata* (Grt., 1884). (777) Det. M. Sabourin, 1991. (purple arches) C. Pl.21(12), H. Pl.23(26) as *Mamestra purpurissata*, R.&L. Fig.177

Genus *Protorthodes* McDunnough, 1943

- 10563 *oviduca* (Gn., 1852). (542) Det. D. F. Schweitzer, 1990. (ruddy quaker) C. Pl.22(2), H. Pl.25(2) as

Graphiphora oviduca, R. Pl.16(20), R.&L. Fig.213Genus *Pseudaletia* Franclemont, 1951

- 10438 *unipuncta* (Haw., 1809). (245) Det. J. R. Grehan, 1991. (armyworm*, whitespeck or American wainscot moth, légionnaire uniponctué, f., Fr.) C. Pl.22(18), H. Pl.24(40) as *Heliophila unipuncta*, R.&L. Fig.236

Genus *Pseudorthodes* Morrison, 1874

- 10578 *vecors* (Gn., 1852). (667) Det. J. D. Lafontaine, 1991. (small brown quaker) C. Pl.22(5), R.&L. Fig.215

Genus *Sideridis* Hübner, 1821

- 10265 *rosea* (Harv., 1874). (648) Det. J. R. Grehan, 1991. (the rosewing) C. Pl.20(19), H. Pl.23(30) as *Mamestra rosea*, R.&L. Fig.206

Genus *Spiramater* McCabe, 1980 (*Lacanobia* auth., not Billberg, 1820)

- 10300 *grandis* (Gn., 1852). (1159) Det. M. Sabourin, 1993. (grand arches) C. Pl.21(9) as *Lacanobia grandis*, H. Pl.23(41) as *Mamestra grandis*, R.&L. Fig.175 as *Polia grandis*
 10301 *lutra* (Gn., 1852). (557) Det. D. F. Schweitzer, 1991. H. Pl.23(28) as *M. lubens*, R.&L. Fig.189 as *P. lutra*

Genus *Tricholita* Grote, 1875

- 10627 *signata* (Wlk., 1860). (754) Det. M. Sabourin, 1991. (signate quaker, CW) C. Pl.21(20), H. Pl.25(7), R.&L. Fig.210

Genus *Trichordestra* McCabe, 1980 (*Lacanobia* auth., not Billberg, 1820)

- 10304 *legitima* (Grt., 1864). (877) Det. M. Sabourin, 1991. (striped garden cat. *, chenille rayée des jardins, f., Fr.) C. Pl.20(17), H. Pl.23(22) as *Mamestra lustralis*, R.&L. Fig.181 as *Polia legitima*
 10307 *lilacina* (Harv., 1874). (941) Det. J. D. Lafontaine, 1992. (flax CW, ver-gris du lin, m., Fr.) H. Pl.23(39) as *M. lilacina*, R.&L. Fig.184 as *P. lilacina*
 10302 *rugosa* (Morr., 1875). (1087) Det. J. D. Lafontaine, 1992. R.&L. Fig.183 as *P. rugosa*
 10303 *tacoma* (Stkr., 1900). (TLM) Published record. (McCabe, 1980) (*tacoma* CW) R.&L. Fig.182 as *P. tacoma*

Genus *Ulolonche* J. B. Smith, 1888

- 10567 *culea* (Gn., 1852). (1361) Det. J. D. Lafontaine, 1994. (sheathed quaker) C. Pl.21(22), H. Pl.25(1) as *Graphiphora culea*, R.&L. Fig.212
 10569 *modesta* (Morr., 1874). (1401) Det. J. D. Lafontaine, 1994. R.&L. Fig.211.

Subfamily NOCTUINAE

Genus *Abagrotis* J. B. Smith, 1890

- 11029 *alternata* (Grt., 1864). (756) Det. M. Sabourin, 1991, ver., J. D. Lafontaine, 1994. (greater red dart, mottled gray CW) C. Pl.20(13), H. Pl.21(20) as *Rhynchagrotis alternata*, R. Pl.8(5), R.&L. Fig.154

Genus *Actebia* Stephens, 1829

- 10924 *fennica* (Tauscher, 1806). (1085) Det. J. D. Lafontaine, 1992. (black army cutworm*, légionnaire noire, f. Fr.) C. Pl.19(15), H. Pl.22(4) as *Noctua fennica*, R.&L. Fig.104

Genus *Agrotis* Ochsenheimer, 1816

- 10648 *gladiaria* Morr., 1874. (951) Det. M. Sabourin, 1991. (swordman dart, clay-backed cutworm*, ver gris argile, m., Fr.) C. Pl.19(2), H. Pl.22(19) as *Feltia gladiaria*
 10663 *ipilon* (Hufn., 1766). (359) Det. J. R. Grehan, 1990. (black cutworm*, ipilon dart, greasy CW, dark sword-grass moth, ver-gris noir, m., Fr.) C. Pl.19(9), R.&L. Fig.99
 10651 *venerabilis* Wlk., 1857. (499) Det. J. R. Grehan, 1991. (venerable dart, dusky CW) C. Pl.19(6), H. Pl.22(26) as *Feltia venerabilis*, R.&L. Fig.96
 10641 *vetusta* Wlk., 1865. (919) Det. M. Sabourin, 1991 ver J. D. Lafontaine 1992. (old man dart) C. Pl.19(4), H. Pl.22(25) as *Porosagrotis vetusta*, R.&L. Fig.92

- 10659 *volubilis* Harv., 1874. (633) Det. M. Sabourin, 1991. (voluble dart) C. Pl.19(5), R.&L. Fig.97
- Genus *Anaplectoides* McDunnough, 1929
- 11000 *prasina* (D. & S., 1775). (403) Det. D. F. Schweitzer, 1991. (green arches) C. Pl.20(15), H. Pl.21(24) as *Adelphagrotis prasina*, R.&L. Fig.149
- 11001 *pressus* (Grt., 1874). (1083) Det. J. D. Lafontaine, 1992. (dappled dart) C. Pl.21(2), H. Pl.21(25) as *Platagrotis pressus*, R.&L. Fig.145
- Genus *Aplectoides* Butler, 1878
- 10999 *condita* (Gn., 1852). (1004) Det. M. Sabourin, 1992. R.&L. Fig.144
- Genus *Cerastis* Ochsenheimer, 1816
- 10994 *tenebrifera* (Wlk., 1865). (509) Det. D. F. Schweitzer, 1990. (reddish speckled dart) C. Pl.20(5), H. Pl.21(33) as *Semiophora tenebrifera*, R.&L. Fig.110
- Genus *Coenophila* Steph., 1850
- 10988a *opacifrons* (Grt., 1878). (1429) Det. J. D. Lafontaine, 1994. R.&L. Fig. 131 as *Amathes opacifrons*
- Genus *Cryptocala* Benjamin, 1921
- 11012 *acadiensis* (Bethune, 1870). (700) Det. J. R. Grehan, 1991. (catocaline dart, fausse likenée, f., Fr.) C. Pl.20(8), H. Pl.21(18) as *Rhynchagrotis gilvipennis*, R.&L. Fig.146
- Genus *Diarsia* Hübner, 1821
- 10919 *jucunda* (Wlk., 1857). (548) Det. D. F. Schweitzer, 1990. (smaller pinkish dart) C. Pl.21(1), H. Pl.22(5) as *Noctua jucunda*, R.&L. Fig.123
- 10917 *rubifera* (Grt., 1875). (1084) Det. J. D. Lafontaine, 1992. R.&L. Fig.119
- Genus *Euagrotis* McDunnough, 1929
- 10902 *forbesi* Franc., 1952. (CTP) Det. J. D. Lafontaine, 1991. R. Pl.14(43), R.&L. Fig.116
- 10903 *illapsa* (Wlk., 1857). (876) Det. M. Sabourin, 1992. (snowy dart) C. Pl.20(3), H. Pl.22(8) as *Noctua lubricans*, R. Pl.14(42), R.&L. Fig.112
- Genus *Eueretagrotis* J. B. Smith, 1890
- 11009 *attenta* (Grt., 1874) (1052) Det. J. R. Grehan, 1992. R.&L. Fig.152
- 11008 *perattenta* (Grt., 1876). (670) Det. J. D. Lafontaine, 1991. (two-spot dart) C. Pl.21(5), H. Pl.21(27), R.&L. Fig.151,153
- 11007 *sigmoides* (Gn., 1852). (1051) Det. M. Sabourin, 1991. (sigmoid dart) C. Pl.21(6), H. Pl.21(26), R.&L. Fig.150
- Genus *Eurois* Hübner, 1821
- 10930 *astricta* Morr., 1874. (687) Det. J. R. Grehan, 1991. H. Pl.21(41) as *Peridroma astricta*, R.&L. Fig.108
- 10929 *occulta* (L., 1758). (673) Det. J. D. Lafontaine, 1991. H. Pl.21(42) as *Peridroma occulta*, R.&L. Fig.111
- Genus *Euxoa* Hübner, 1821
- 10807 *albipennis* (Grt., 1876). (478) Det. D. F. Schweitzer, 1991. H. Pl.23(7), L. Pl.4(32-36);I(1);EE(14), R.&L. Fig.65
- 10812 *bostoniensis* (Grt., 1874). (1377) Det. J. D. Lafontaine, 1994. (Boston dart) C. Pl.18(15), L. Pl.2(32,33);E(3), R.&L. Fig.70
- 10755 *declarata* (Wlk., 1865). (1158) Det. J. D. Lafontaine, 1993. L. Pl.3(33-36);G(5);EE(8), R.&L. Fig.66
- 10838 *detersa* (Wlk., 1856). (706) Det. J. D. Lafontaine, 1992. (rubbed dart, sand CW, ver-gris arénicole, m. Fr.) 0009C. Pl.18(20), H. Pl.22(39), L. Pl.7(47-50);N(2);FF(14), R. Pl.8(2), R.&L. Fig.77
- 10705 *messoria* (Harr., 1841). (717) Det. J. R. Grehan, 1991, ver. J. D. Lafontaine, 1992. (darksided cutworm*, reaper dart, ver-gris moissonneur, m. Fr.) C. Pl.18(16), H. Pl.22(40), L. Pl.1(29,30);B(2), R. Pl.7(6), R.&L. Fig.74
- 10817 *obeliscoides* (Gn., 1852). (1065) Det. J. D. Hedbor, 1991, ver. M. Sabourin 1992. H. Pl.23(12), L. Pl.6(19-23);K(5), R.&L. Fig.68
- 10801 *ochrogaster* (Gn., 1852). (715) Det. J. R. Grehan, 1991. (red-backed cutworm*, ver-gris à dos rouge, m., Fr.) H. Pl.23(10), L. Pl.6(8-11);K(1);EE(20), R.&L. Fig.84,85

- 10851 *redimicula* (Morr., 1874). (1253) Det. J. D. Lafontaine, 1993. (fillet dart) C. Pl.18(18), L. Pl.6(54-56);L(2);FF(8), R.&L. Fig.64
- 10715 *scandens* (Riley, 1869). (664) Det. J. D. Lafontaine, 1991. (white cutworm*, ver-gris blanc, m. Fr.) L. Pl.1(43,44);C(2), R. Pl.8(1), R.&L. Fig.91
- 10854 *servita* (Sm., 1895). (940) Det. J. D. Lafontaine, 1992. L. Pl.6(49-53);L(1);FF(7), R.&L. Fig.63
- 10805 *tessellata* (Harr., 1841). (663) Det. J. D. Lafontaine, 1991. (striped cutworm*, tessellate dart, ver-gris rayé, m. Fr.) C. Pl.18(19), H. Pl.23(4), L. Pl.4(17-28);H(9);EE(13), R.&L. Fig.69
- 10803 *velleripennis* (Grt., 1874). (1228) Det. D. F. Schweitzer, 1994. H. Pl.22(35), L. Pl.5(28,29);J(3), R.&L. Fig.76
- Genus *Feltia* Walker, 1856
- 10676 *herilis* (Grt., 1873). (372). Det. J. R. Grehan, 1991. (master's dart, dingy CW) C. Pl.19(10), H. Pl.22(20), R.&L. Fig.102
- 10670 *jaculifera* (Gn., 1852). (504) Det. J. R. Grehan, 1991. (dingy cutworm*) C. Pl.19(8), H. Pl.22(21) as *F. subgothica*, R. Pl.7(5), R.&L. Fig.100
- 10674 *subgothica* (Haw., 1809). (1437) Det. J. R. Grehan, 1994. (subgothic dart, dingy cutworm) C. Pl.19(11), R.&L. Fig. 103.
- 10675 *triosa* (Lint., 1874). (938) Det. J. D. Lafontaine, 1992. (dingy CW) R. Pl.16(28)
- Genus *Graphiphora* Ochsenheimer, 1816
- 10928 *auger haruspica* (Grt., 1875). (698) Det. J. R. Grehan, 1991. (soothsayer dart) H. Pl.22(9), R.&L. Fig.118
- Genus *Hemipachnobia* McDonnough, 1929
- 10993 *subporphyrea* (Wlk., 1858). (1209) Det. J. D. Lafontaine, 1993. R.&L. Fig.113 as *H. monochromata*
- Genus *Heptagrotis* McD., 1929
- 11010 *phyllophora* (Grt., 1874). (1406) Det., J. D. Lafontaine, 1994. R.&L. Fig.120 (cw)
- Genus *Metalepsis* Grote, 1875
- 10997 *fishii* (Grt., 1878). (MSG) Det. J. D. Lafontaine, 1994. R.&L. Fig.107
- 10996 *salicarum* (Wlk., 1857). (592) Det. M. Sabourin, 1991. H. Pl.21(31) as *Pachnobia salicarum*, R.&L. Fig.109
- Genus *Noctua* Linnaeus, 1758
- 11012.1 *pronuba* (L., 1758). (755) Det. M. Sabourin, 1991. (large yellow underwing)
- Genus *Ochropleura* Hübner, 1821
- 10891 *plecta* (L., 1761). (95) Det. J. R. Grehan, 1991. (flame-shouldered dart) C. Pl.19(17), H. Pl.22(6) as *Noctua plecta*, R.&L. Fig.107
- Genus *Paradiarsia* McD., 1929
- 10992 *littoralis* (Pack., 1867). (1426) Det J. R. Grehan, ver J. D. Lafontaine, 1994 R.&L. Fig.117
- Genus *Peridroma* Hübner, 1821
- 10915 *saucia* (Hbn., 1803-08). (775) Det. J. R. Grehan, 1991, ver. J. E. Rawlins, 1991. (variegated cutworm*, common or alfalfa CW, pearly underwing or unarmed rustic, ver-gris panaché, m., Fr.) C. Pl.20(6), H. Pl.21(40) as *P. saucia*, R. Pl.8(3), R.&L. Fig.114
- Genus *Protolampra* McDunnough, 1929
- 11006 *brunneicollis* (Grt., 1865). (1246) Det. J. D. Lafontaine, 1993. (brown-collared dart, CW) C. Pl.21(4), R.&L. Fig.148
- Genus *Rhynchagrotis* J. B. Smith, 1890
- 11045 *anchocelioides* (Gn., 1852). (1148) Det. J. D. Lafontaine, 1994.
- 11043 *cupida* (Grt., 1865). (721) Det. M. Sabourin & ver. J. D. Lafontaine, 1993. (brown CW) H. Pl.21(19) as *R. anchocelioides*, R.&L. Fig.161

Genus *Spaelotis* Boisduval, 1840

- 10926 *clandestina* (Harr., 1862). (307) Det. D. F. Schweitzer, 1991. (W-marked cutworm*, clandestine dart, ver-gris clandestin, m., Fr.) C. Pl.19(13), H. Pl.22(14) as *Noctua clandestina*, R.&L. Fig.105

Genus *Trichosilia* Hampson, 1918

- 10698.2 *geniculata* (G. & R., 1868). (856) Det. J. D. Lafontaine, 1991. (knee-joint dart) C. Pl.19(14) as *Feltia geniculata*, H. Pl.21(36) as *Agrotis geniculata*, R.&L. Fig.101 as *F. geniculata*
10698.3 *mollis* (Wlk., 1857). (1002) Det. J. D. Lafontaine, 1992. R.&L. Fig.93 as *Agrotis mollis*

Genus *Xestia* Hübner, 1818 (*Anomogyna* Staudinger, 1871)

- 10968 *badicollis* (Grt., 1873). (390) Det. J. E. Rawlins, 1991. (northern variable dart) C. Pl.20(10)
10955 *badinodis* (Grt., 1874). (797) Det. J. E. Rawlins, 1991. (pale banded dart, CW) C. Pl.19(18), H. Pl.21(37) as *Agrotis badinodis*, R.&L. Fig.126 as *Amathes badinodes*
10950 *bicarnea* (Gn., 1852). (408) Det. J. R. Grehan, 1991. (pink-spotted dart) C. Pl.20(9), H. Pl.21(35) as *Noctua bicarnea*, R.&L. Fig.129 as *Amathes bicarnea*
10942a *c-nigrum adela* Franc., 1980. (605) Det. D. F. Schweitzer, 1991. (setaceous Hebrew character moth, spotted CW, lesser black-letter dart, ver-gris tacheté, m., Fr.)
10954 *collaris* (G. & R., 1868). (1461) Det. M. Sabourin, 1991. (the collared dart, CW) C. Pl.19(21), H. Pl.22(7) as *Noctua collaris*, R.&L. Fig.128 as *Amathes collaris*
10969 *dilucida* (Morr., 1875). (796) Det. J. E. Rawlins, 1991. (dull reddish dart) H. Pl.21(30) as *Semiophora elimata* form *janualis*, R.&L. Fig.142
10942.1 *dolosa* Franc., 1980. (99) Det. J. R. Grehan, 1990. (greater black letter dart, spotted CW) C. Pl.20(4), H. Pl.22(1) as *Noctua c-nigrum*, R. Pl.8(4), R.&L. Fig.124 as *Amathes c-nigrum*
10958 *fabulosa* Fgn., 1965. (672) Det. J. D. Lafontaine, 1991. R.&L. Fig.136 as *Anomogynea fabulosa*
10959.2 *mixta* (Wlk., 1856). (968) Det. M. Sabourin, 1991, ver. J. D. Lafontaine, 1992. R.&L. Fig.137 as *Amathes speciosa*
10943 *normaniana* (Grt., 1874). (362) Det. D. F. Schweitzer, 1991. (Norman's dart) C. Pl.19(19), H. Pl.21(34) as *Noctua normaniana*, R.&L. Fig.127 as *Anomogyna normaniana*
10947 *oblata* (Morr., 1875). (671) Det. J. D. Lafontaine, 1991. (rosey dart) H. Pl.22(3) as *Noctua oblata*
10959b *mixta* (Wlk., 1856). (968) Det. M. Sabourin, 1991, ver. J. D. Lafontaine, 1992.
10962 *perquiritata* (Morr., 1874). (1268) Det. D. F. Schweitzer, 1993. (gray spruce CW, phalène grise de l'épinette, f., Fr.) R.&L. Fig.138 as *Anomogyna perquiritata*
10964 *homogena* (McD., 1921). (799) Det. D. F. Schweitzer, 1991. R.&L. Fig.139.
10944 *smithii* (Snell., 1896). (523) Det. D. F. Schweitzer, 1990. (Smith's dart) C. Pl.20(7), R.&L. Fig.125 as *Amathes smithii*
10951 *tenuicula* (Morr., 1874). (1252) Det. J. D. Lafontaine, 1993. R.&L. Fig.130 as *Amathes tenuicula*
10970 *youngii* (Sm., 1902). (866) Det. J. D. Lafontaine, 1991. R.&L. Fig.143 as *A. youngii*
10967.- n. sp.; *elimata* complex. (549) Det. J. D. Lafontaine, 1993.

Genus *Ufeus* Grote, 1873

- 11051 *satyricus* Grt., 1873. (446) Det. J. D. Lafontaine, 1991. (CW) R. Pl.16(23), R.&L. Fig.157

Subfamily HELIOTHINAE

Genus *Helicoverpa* Hardwick, 1965

- 11068 *zea* (Boddie, 1850). (771) Det. J. R. Grehan, 1991. (bollworm*, corn earworm*, tomato fruitworm*, cotton bollworm, sorghum headworm, Boddie, noctuelle de la tomate, f., Fr. ver de l'épis du maïs, m., Fr.) C. Pl.29(14) as *Heliothis zea*, H. Pl.27(17) as *H. armiger*, R.&L. Fig.451

Genus *Heliothis* Ochsenheimer, 1816

- 11072 *phloxiphagus* G. & R., 1867. (764) Det. D. F. Schweitzer, 1991. (spotted straw) R.&L. Fig.471

Genus *Schinia* Hübner, 1818 (flower moths)

- 11128 *arcigera* (Gn., 1852). (CTP) Det. M. Sabourin, 1991 (archigera flower moth) C. Pl.29(20), H. Pl.27(42) as *S. arcifera*, R.&L. Fig.477
11164 *florida* (Gn., 1852). (555) Det. J. R. Grehan, 1991. (primrose moth, noctuelle rose de l'onagre, f., Fr.) C. Pl.29(8), H. Pl.27(19) as *Rhodophora florida*, R.&L. Fig.452
11117 *lynx* (Gn., 1852). (703) Det. J. R. Grehan, 1991, ver. D. F. Schweitzer, 1992. (lynx flower moth) C.

- Pl.29(18)
11177 *nundina* (Drury, 1773). (1152) Det. J. R. Grehan, 1992. (goldenrod flower moth) C. Pl.29(10), H. Pl.27(33), R.&L. Fig.476
11118 *obscurata* Stkr., 1898. (942) Det. M. Sabourin, ver. D. F. Schweitzer, 1992. (obscure flower moth) H. Pl.27(38) as *S. lynx*, R.&L. Fig.454
11135 *rivulosa* (Gn., 1852). (758) Det. M. Sabourin, 1991. (ragweed flower moth) C. Pl.29(16), H. Pl.27(44) as *S. marginata*, R.&L. Fig.478 as *S. marginata*
11149 *trifascia* Hbn., 1818. (689) Det. J. R. Grehan, 1991, ver. D. F. Schweitzer, 1991. (three-lined flower moth) C. Pl.29(7), H. Pl.27(35), R. Pl.16(34), R.&L. Fig.453

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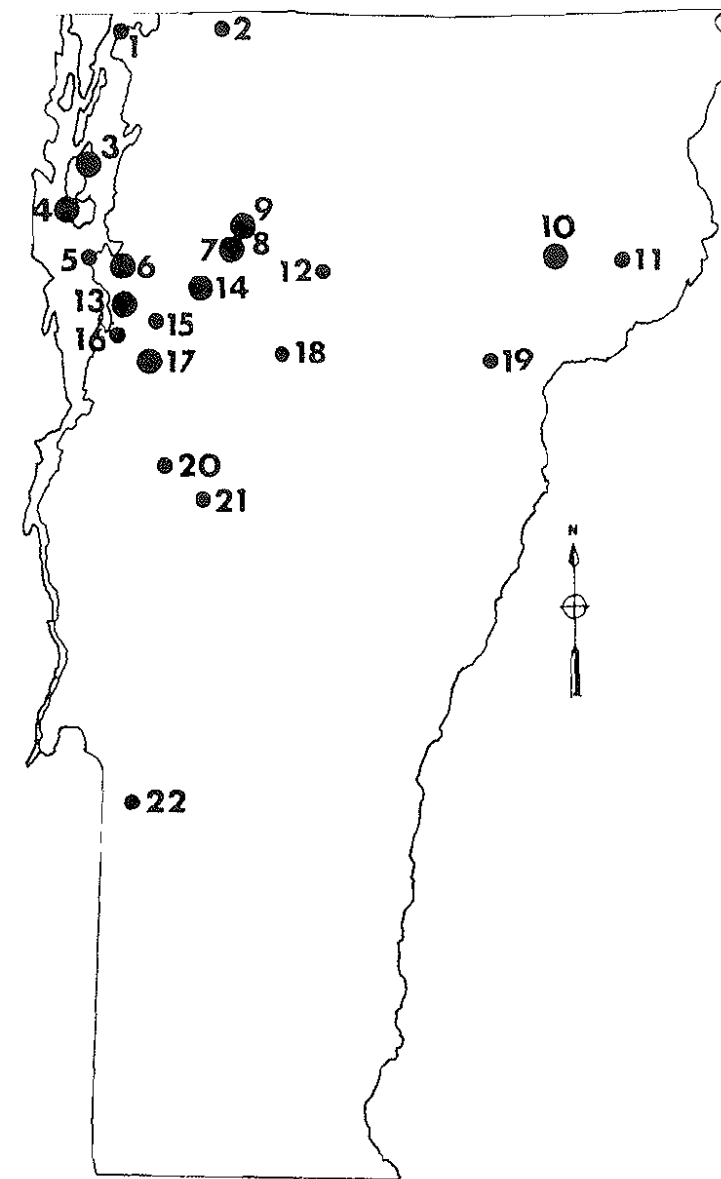
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Major Collecting Localities for the Vermont Lepidoptera Catalogue

Site Key

● intensive collecting
 ● intermittent collecting



Localities

1. Maquam bog
2. Franklin Bog
3. Lovers Lane, Grand Isle
4. Barnes Bay, South Hero
5. Colchester Bog
6. Camp Johnson, Colchester
7. Proctor Maple Research Center
8. Underhill State Park (600 m)
9. Mount Mansfield (1160 m)
10. Lyndonville
11. Victory Bog
12. Molly Bog
13. UVM Horticultural Research Farm
14. Jericho Research Forest
15. Williston
16. Shelburne Pond bog
17. Charlotte Road, Hinesburg
18. Waterbury
19. Peacham Bog
20. Bristol/New Haven
21. Ripton Road, Lincoln
22. Little Pond, Lake Saint Catherine

Plate 1. Tortricidae, Pyralidae, Incurvariidae

1. *Olethreutes albiciliana* (2832) (Tortricidae: Olethreutinae)
7 July 1990, Jericho Research Forest, Jericho, Chittenden Co.
2. *Acleris variana* (3548) (Tortricidae: Tortricinae)
29 July 1992, reared ex. eastern hemlock, South Burlington, Chittenden Co.
3. *Acleris variana* (3548) (Tortricidae: Tortricinae)
19 August 1993, 1160 m., Mount Mansfield, Chittenden Co.
4. *Acleris celiana* (3533) (Tortricidae: Tortricinae)
3 September 1991, Bristol, Addison Co.
5. *Sereda tautana* (3425) (Tortricidae: Olethreutinae)
27 April 1992, Camp Johnson, Colchester, Chittenden Co.
6. *Acleris variana* (3548) (Tortricidae: Tortricinae)
15 August 1991, 1160 m., Mount Mansfield, Chittenden Co.
7. *Acleris variana* (3548) (Tortricidae: Tortricinae)
15 August 1991, 1160 m., Mount Mansfield, Chittenden Co.
8. *Acleris celiana* (3533) (Tortricidae: Tortricinae)
5 April 1991, Williston, Chittenden Co.
9. *Epiblema otiosana* (3202) (Tortricidae: Olethreutinae)
31 July 1992, UVM Horticultural Research Farm, South Burlington, Chittenden Co.
10. *Cnephasia stephensiana* (356_) (Tortricidae: Tortricinae)
3 July 1991, Hinesburg, Chittenden Co.
11. *Acleris maccana* (3549) (Tortricidae: Tortricinae)
29 September 1992, Proctor Maple Res. Center, Underhill, Chittenden Co.
12. *Loxostege commixtalis* (5016) (Pyralidae: Pyraustinae)
10 July 1993, Peacham Bog, Groton State Forest, Caledonia Co.
13. *Sparganothis unifasciana* (3711) (Tortricidae: Tortricinae)
20 June 1992, UVM Horticultural Research Farm, South Burlington, Chittenden Co.
14. *Sparganothis tristriata* (3699) (Tortricidae: Tortricinae)
2 August 1991, Bristol, Addison Co.
15. *Cydia candana* (3469) (Tortricidae: Olethreutinae)
30 April 1992, reared ex sugar maple seeds, Randolph, Washington Co.
16. *Crambus youngellus* (5349) (Pyralidae: Crambinae)
20 June 1993, Franklin Bog, Franklin, Franklin Co.
17. *Adela ridingsella* (228) (Incurvariidae: Adelinae)
19 June 1993, Jericho Research Forest, Jericho, Chittenden Co.
18. *Eucosma grotiana* (3078) (Tortricidae: Olethreutinae)
3 July 1992, UVM Horticultural Research Farm, South Burlington, Chittenden Co.

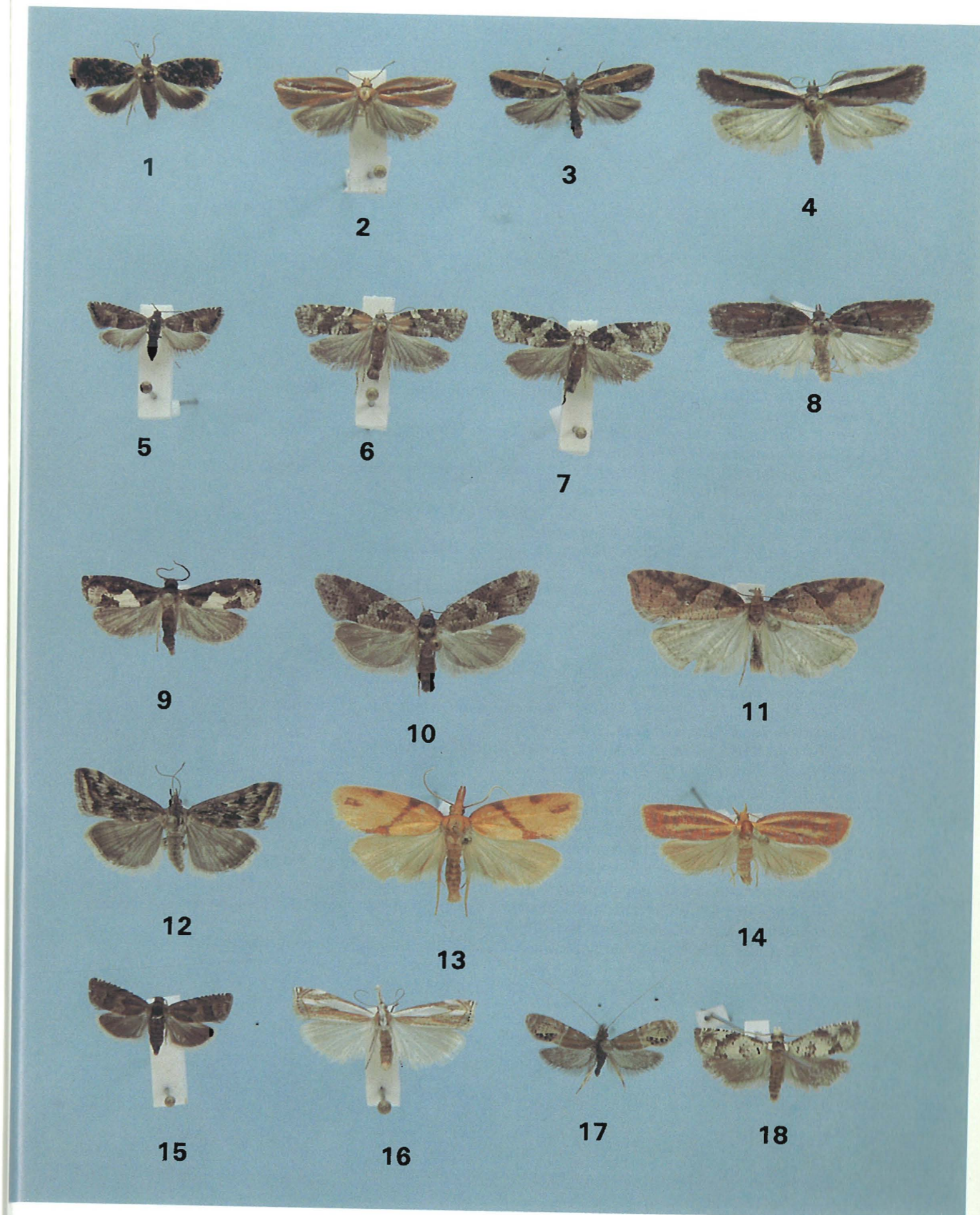
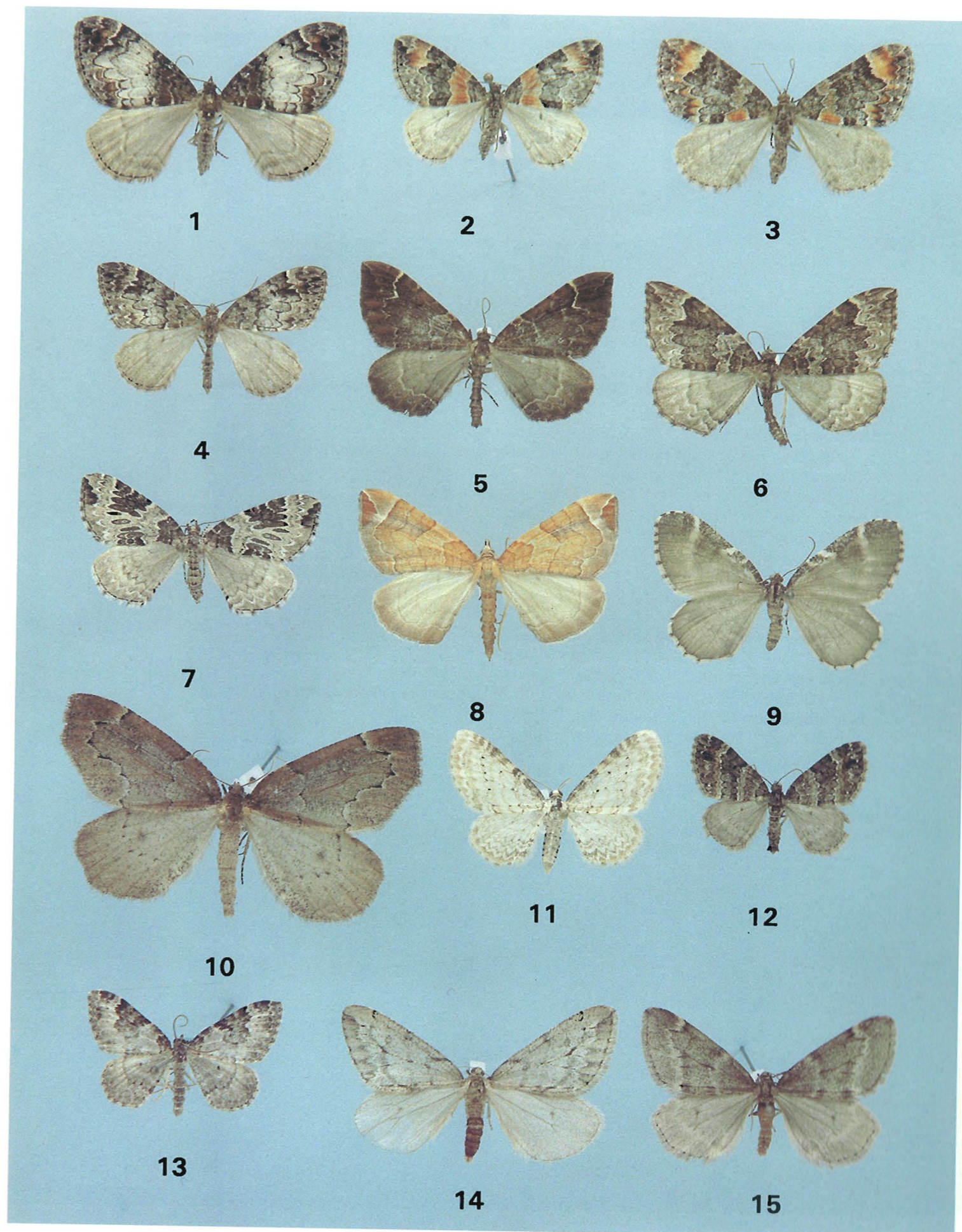


Plate 2. Geometridae

1. *Dysstroma truncata* (7187) (Larentiinae)
21 July 1993, Underhill State Park, 600 m, Mount Mansfield, Chittenden Co.
2. *Dysstroma hersiliata* (7189) (Larentiinae)
28 July 1993, Proctor Maple Research Center, Underhill, Chittenden Co.
3. *Dysstroma walkerata* (7188) (Larentiinae)
30 June 1992, Underhill State Park, 600 m, Mount Mansfield, Chittenden Co.
4. *Dysstroma citrata* (7182) (Larentiinae)
15 August, 1991, 1160 m., Mount Mansfield, Chittenden Co.
5. *Eulithis flavibrunneata* (7205) (Larentiinae)
15 August, 1991, 1160 m., Mount Mansfield, Chittenden Co.
6. *Eulithis destinata* (7204) (Larentiinae)
7 August 1991, 1160 m., Mount Mansfield, Chittenden Co.
7. *Eulithis explanata* (7206) (Larentiinae)
14 August 1992, Franklin Bog, Franklin, Franklin Co.
8. *Eulithis testa* (7201) (Larentiinae)
11 August 1991, Mud Pond, Williston, Chittenden Co.
9. *Stannodes gibbicostata* (7333) (Larentiinae)
28 August 1991, Proctor Maple Research Center, Underhill, Chittenden Co.
10. *Epirranthis substriataria* (6799) (Ennominae)
24 April 1991, Jericho Research Forest, Jericho, Chittenden Co.
11. *Eupithecia cretacea* (7533) (Larentiinae)
9 June 1992, Underhill State Park, 600 m, Mount Mansfield, Chittenden Co.
12. *Perizoma basaliata* (7316) (Larentiinae)
14 July 1992, Underhill State Park, 600 m, Mount Mansfield, Chittenden Co.
13. *Xanthorhoe iduata* (7371) (Larentiinae)
30 June 1993, Underhill State Park, 600 m, Mount Mansfield, Chittenden Co.
14. *Palaecrita vernata* (6662) (Ennominae)
15 April 1993, UVM Horticultural Research Farm, South Burlington, Chittenden Co.
15. *Alsophila pometaria* (6258) (Oenochrominae)
27 October 1993, Entomology Research Laboratory, South Burlington, Chittenden Co.

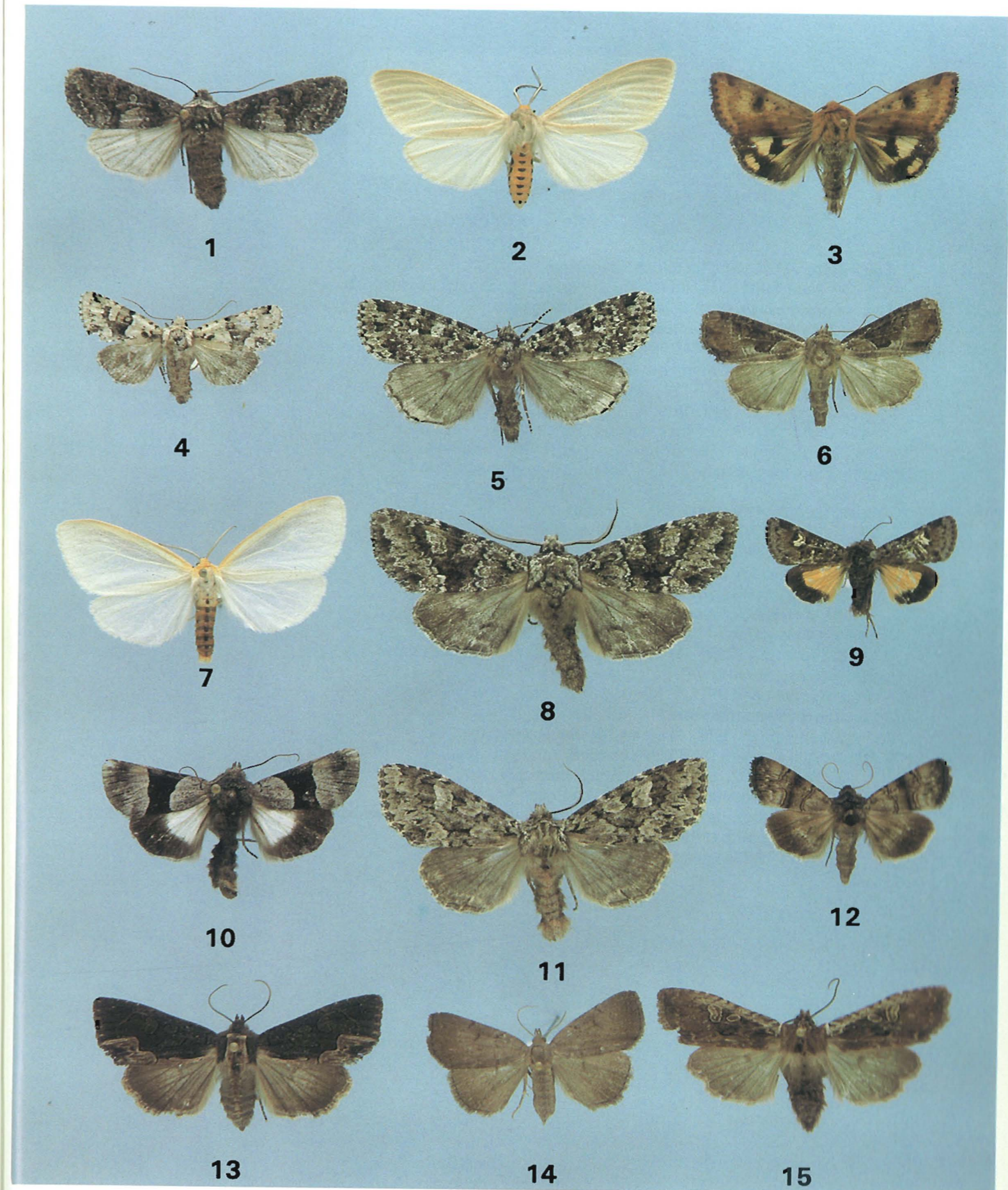


Correction.

Refer text to following plate

Plate 3. Noctuoidea, Sphingoidea, Papilionoidea, Hepialoidea

1. *Noctua pronuba* (11012.1) (Noctuidae: Noctuinae)
6 June 1992, UVM Horticultural Research Farm, South Burlington, Chittenden Co.
2. *Sthenopsis thule* (21) (Hepialidae)
July 1992, Barnes Bay, South Hero, Grand Isle Co.
3. *Oeneis jutta* (4611) (Nymphalidae: Satyrinae)
3 June 1994, Essex Co.
4. *Platarcta parthenos* (8162) (Arctiidae: Arctiinae)
29 June 1992, Underhill State Park, 600 m, Mount Mansfield, Chittenden Co.
5. *Sphinx eremitus* (7796) (Sphingidae: Sphinginae)
19 July 1990, Burton Island State Park, Saint Albans, Franklin Co.
6. *Haploa clymene* (8107) (Arctiidae: Arctiinae)
16 August 1992, South Burlington, Chittenden Co.
7. *Diachrysia balluca* (8897) (Noctuidae: Plusiinae)
18 July 1994, Underhill State Park, 600 m, Mount Mansfield, Chittenden Co.
8. *Leucoma salicis* (8319) (Lymantriidae: Orgyiinae)
20 June 1991, Barnes Bay, South Hero, Grand Isle Co.



Correction

Refer text to previous plate

Plate 4. Noctuoidea

1. *Egira dolosa* (10513) (Noctuidae: Hadeninae)
30 April 1991, Jericho Research Forest, Jericho, Chittenden Co.
2. *Cycnia oregonensis* (8231) (Arctiidae: Arctiinae)
2 May 1992, Ripton Road, Lincoln, Addison Co.
3. *Heliothis phloxiphagus* (11072) (Noctuidae: Heliothinae)
25 May 1991, Grand Isle, Grand Isle Co.
4. *Lacinopolia implicata* (10414) (Noctuidae: Hadeninae)
3 September 1991, Bristol, Addison Co.
5. *Xestia mixta* (10959b) (Noctuidae: Noctuinae)
30 July 1991, 1160 m., Mount Mansfield, Chittenden Co.
6. *Apamea ophiogramma* (9362.1) (Noctuidae: Amphipyriinae)
28 July 1991, UVM Horticultural Research Farm, South Burlington, Chittenden Co.
7. *Cycnia tenera* (8230) (Arctiidae: Arctiinae)
4 July 1992, UVM Horticultural Research Farm, South Burlington, Chittenden Co.
8. *Pachypolia atricornis* (9992) (Noctuidae: Cuculliinae)
22 September 1992, Proctor Maple Res. Center, Underhill, Chittenden Co.
9. *Anarta luteola* (10332.c) (Noctuidae: Hadeninae)
18 May 1989, Franklin Bog, Franklin, Franklin Co.
10. *Oncocnemis piffardi* (10123) (Noctuidae: Cuculliinae)
3 September 1991, 1160 m., Mount Mansfield, Chittenden Co.
11. *Platypolia anceps* (9976) (Noctuidae: Cuculliinae)
8 September 1991, 1160 m., Mount Mansfield, Chittenden Co.
12. *Oncocnemis saundersiana* (10099) (Noctuidae: Cuculliinae)
5 September 1973, Manchester, Bennington Co.
13. *Dypterygia rozmani* (9560) (Noctuidae: Amphipyriinae)
22 May, 1992, UVM Horticultural Research Farm, South Burlington, Chittenden Co.
14. *Zanclognatha martha* (8350) (Noctuidae: Herminiinae)
20 July 1990, Jericho Research Forest, Jericho, Chittenden Co.
15. *Lithophane oriunda* (9894) (Noctuidae: Cuculliinae)
16 April 1993, Lovers Lane, Grand Isle, Grand Isle Co.

