

author believed prussic acid "to be neither painful or injurious, yet decisive, and communicative with pleasure." His method was to dip a pointed crow-quill into prussic acid and immediately insert it into the insect at a point "between the shoulders and beneath the head." And, to quote Mr. Knapp, "Extinction of animation ensues."

Knapp, in the preface of his book, states that many years have elapsed since the publication of White's *Natural History of Selborne*, and that no publication resembling it has since appeared. The reader is left to infer that *The Journal of a Naturalist* supplies the need. Knapp's book is really rhetoric on natural history and the whole thing is somewhat artificial and not at all to be put in the same class as White's *Selborne*.

John Leonard Knapp was a botanist who was born at Shenley, Buckinghamshire, on May 9, 1767. He made long summer botanical excursions, one of which was to Scotland, where he collected several of the rarest of British grasses. His *Journal of a Naturalist* was successful. It was published, first anonymously, in 1829, and went through three editions during his lifetime.

JONATHAN HOLMES COBB (1799-1882)

A few words should be said here about Cobb's "Silk Manual" which was a popular book for several years. The title is *A manual containing information respecting the growth of the mulberry tree, with suitable directions for the culture of silk* by Jonathan Holmes Cobb, Boston, 1831. Other editions appeared in 1832, 1833 and 1839. Cobb was a manufacturer of Dedham, Massachusetts, who founded the silk industry in the United States and who lived from 1799 to 1882. His book is divided into three parts, the first being devoted to the culture of the mulberry tree, sowing the seed, planting, grafting, pruning, types of trees, soil, etc. The second part relates to the rearing of the silk-worm, eggs, hatching, food, moulting, cocoons, curing, diseases of silk-worms, etc., and the third to reeling, various processes of manufacture, machinery, etc. In addition, there is an appendix covering the history of silk culture in the United States, dyeing of silk, values, imports, etc., etc. Part of the appendix is quoted here from the 1839 edition because it presents a picture of the large amount of public interest in silk-culture at that time and partly because it illustrates the danger of making prophecies:

"In America the culture of the silk worm was introduced into Virginia in 1623, by James I, who himself composed a book of instructions on the subject, and caused mulberry trees and silk worms eggs to be sent to the colony. He made great efforts to have it take the place of tobacco in agricultural pursuits. Thirty years afterwards it was enacted that every planter who should not have raised at least ten mulberry trees for every hundred acres of land in his possession, should be fined ten pounds of tobacco. Five thousand pounds of tobacco were promised to any one who should produce one thousand pounds of wound silk in one year. In 1664, Mr. Walker, a member of the legislature, stated that he had seventy thousand mulberry trees on his estate. In 1666, all statutory provisions were repealed, because the business was in so thriving a condition as no longer to require protection. The decline of silk business in that state was probably owing to want of perseverance. The new emigrants brought with them new views and habits; and as they brought their slaves, it became necessary that an immediate annual profit should be realized. Hence the culture of rice and indigo was introduced, and on account of the immediate profit derived from their culture, that of silk languished, which would have required a steady perseverance for a course of years.

"The culture of silk was introduced into Georgia at the earliest period of its settlement. The trustees of the colony transmitted mulberry trees as well as seeds and silk worms' eggs. The public seal of the colony represented silk worms in their various stages.

In the year 1736 a quantity of raw silk was raised in that colony, and was manufactured at Derby, by Sir Thomas Combe, into a piece of stuff and presented to the queen. A few years before our Revolution considerable quantities of raw silk began to be exported to England, which was found equal to the best silk of Piedmont, and to be worked with less waste than the China silk. In 1776 more than twenty thousand pounds of raw silk were imported into England from Georgia.

"No result of any consequence seems to have followed the exertions of Dr. Franklin to establish a filature at Philadelphia in 1769. The Revolution came on and put an end to the undertaking. There is little doubt that if the United States had continued to remain British Colonies, the culture of silk would have made an immense progress in this country, because its promotion was a matter of vital interest to the mother country, whose manufacturers would have been furnished from hence with the raw material, which they are obliged to purchase at a great expense, drawing very little from their dominions in Bengal, where it seems it is imperfectly prepared.

"In Connecticut this culture has been attended to for seventy years, and it is probable that about four tons are now raised annually in the county of Windham. I was told by an intelligent citizen of that county during my visit there in 1828, that the culture was found profitable and was the best business they could pursue. I found many families, in some towns nearly all engaged in raising silk. A family makes ten, twenty, fifty, or a hundred pounds in a season, according to their supply of leaves. It is evident that they will derive much advantage from introducing European skill into their manufacture of the article. I am told that during the present season they have erected a factory and employ several European artists. There is every reason to believe that a rapid increase of production will soon take place in many of the states of the Union. In New Hampshire, Vermont, and Maine, silk has been cultivated in small quantities with success. Individuals in Massachusetts have cultivated it with success for thirty years, and there is not, probably, a farm in the state on which it may not be raised. The beautiful specimens of the article produced at the agricultural exhibitions in different parts of the Union show the degree of interest excited at the present time on the subject, and indicate that at no distant day great national wealth will be derived from the exertions that are now undertaken in this department."

JOSEPH ENNALLS MUSE (17??-18??)

Dr. Joseph Ennalls Muse, who died at Cambridge, Maryland, and who at one time was stationed at the United States Marine Hospital in New Orleans, Louisiana, contributed to the *American Journal of Science and Arts* (vol. 22, No. 1, April, art. 2, pp. 71-74; 155-158) in 1832 an article "On the Hessian Fly" that he had written on December 27, 1831, and February 26, 1832.

Dr. Joseph E. Muse was living at Cambridge, eastern shore of Maryland, when he wrote this article, and in it he complains about the lack of attention to insects injurious to crops. He discusses the "Hessian Fly," which exists only in the wheat-producing sections of the United States and Canada, and not in Europe or South America, having appeared fifty years previously. The insect and its habits are then described. To get rid of it, he advises that stack yards and other places be kept clean and free from "vegetating scattered wheat." Another practice to be avoided is fallowing, for a second successive crop of wheat — upon wheat stubble. The scattered wheat thus prematurely vegetated, gives sustenance and security to the insects. He says the peculiar and exclusive prey of this insect is the green leaf and stalk of wheat. If casual vegetation of this plant were avoided between the harvesting of the old crop and the seeding of the new, and the latter operation deferred until the beginning of frost, the parent swarms would most probably perish.

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ADDITIONS AND CORRECTIONS TO THE BIBLIOGRAPHY OF BUTTERFLIES, IN THE ATLAS OF NEOTROPICAL LEPIDOPTERA. No. II. COMPRISING MOSTLY WORKS PUBLISHED DURING 1996 AND 1997

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The first set of *Additions and Corrections* to the annotated *Bibliography of Butterflies* (Lamas, Robbins, and Field, 1995), in the series *Atlas of Neotropical Lepidoptera*, Vol. 124, appeared a year ago (Lamas, 1997, *Lepidoptera News* 1997(1):4-18). The 496 additional references included herein comprise mostly works published in 1996 and 1997, such as were recorded until June 30th, 1998.

In the *Corrections* section, rather than repeating whole bibliographic entries, I have used **bold** typeface to indicate corrections made, which I hope will be self explanatory. Changes in the dates of publication of some XIX century works have been made in accordance with new information provided by N. L. Evenhuis in his recent *Litteratura Taxonomica Dipterorum (1758-1930)* (1997, Leiden, Backhuys Publ.).

Walter Neukirchen, Julián Salazar and Angel Vilorio were particularly helpful in providing data on publications omitted previously, and I am most grateful for their kind interest and assistance.

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- 1907b. Separation of *Heliconius*... [general; new taxa: *H. microclea*, *H. vulcanus pyrforus*]

- 1919g. New sub-species...1918(3/4): clx-clxi...

Klug, Johann **Christoph** Friedrich

Krüger, **Eugen** [nec Eduard]

Küppers, Peter Victor

Lamarck, Jean Baptiste Pierre Antoine de Monet de

1801. *Système...* ([25 January])...

1835. *Histoire...* ([December])...

Lamotte, Maxime **Georges** [1920-], and Patrick Blandin

Latreille, Pierre André

- 1803a. ([13 June])...

- 1803b. ([13 June])...

- 1803c. ([23 October])...

1804. ([7 March])...

- 1809a. ([20 March])...

1810. ([23 May])...

1811. ([22 November])...

1813. ([24 September])...

- 1816a. *Argynne*... ([14 September])...
 1816b. *Les crustacés*...
 1817a. *Danaide*... ([15 March])...
 1817b. *Erycine*... ([15 March])...
 1817c. *Heliconien*... ([13 September])...
 1817d. Pl. E14... ([13 September])...
 1817e. *Insectes de l'Amérique*... ([13 December])...
 1817f. *Libythée*... ([27 December])...
 1818a. ([30 May])...
 1818b. ([5 September])...
 1818c. ([5 September])...
 1818d. ([26 December])...
 1819a. ([13 February])...
 1819b. ([1 May])...
 1824a. ([17 July])...
 1825. *Familles*... ([16 May])...
 1829. *Les crustacés*... ([11 April])...
 Lepesme, Pierre Charles [1913-1957]
 Lesse, Jacques Hubert de [1914-1972]
 Lewis, Charles Bernard, Jr. [1913-]
 Lindner, Erwin [1888-1988]
 Linnaeus, Carolus
 1767. *Systema*... ([14 June])...
 1771. *Regni*... ([17 October])...
 pp. 219-220: The 1993 and 1994 papers listed on p. 220 under "Llorente, Jorge Enrique, and Moisés Armando Luis" should be included after the penultimate line of p. 219, right column; on p. 220, the 1993 entry by "Llorente, Jorge Enrique, Moisés Armando Luis, Isabel Vargas and Jorge Soberón" should be listed after line 10 from above, left column.
 Lucas, Pierre Hippolyte
 1838. *Papillon*... ([December])...
 1839b. *Pieride*... ([8 April])...
 1857. *Lepidópteros*... ([17 June]) [a French edition...]
 Lutz, Adolfo [1855-1940], Hugo...
 Marschall, August Friedrich Graf von
 1873. *Nomenclator*... ([3 December])...
 Martín, Rafael [1910-1987]
 May, Edward George Last [1870-1956]
 May, Edward George Last, and Mário Rosa
 Meuschen, Friedrich Christian [1719-1811]
 Michelbacher, Abe Ezra [1899-], and Edward Shearman Ross
 Miller, James Stuart [1953-]
 Miller, James Stuart, and Paul P. Feeny
 Miller, Lee Denmar
 1986a. The relationship... [P. petronius kerrianna]
 Monroe, Rose Sawyer, Gary Noel Ross and Roger N. Williams
 Mooser, Oswaldo [1903-1983], and Manuel García
 Müller, Philip Ludwig Statius
 1776. *Des Ritters*... ([21 April])...
 Neder, Lilia Estela, and Martha Gladys Arce
 Neidhoefer, James R. [1917-1995]
 Niepelt, Friedrich Wilhelm
 1908e. *Zwei neue*... 213-214...
 1909b. *Neue*... 54(1/2):...
 Owen, Denis Frank [?-1996]
 Perty, Joseph Anton Maximilian
 1833. *Lepidoptera*, pp. 151-164 ([December]), pls. 29-32 ([September]). *In*:...
 Plaumann, Friedrich [=Fritz] [1902-1994]
 Popescu-Gorj, Aurelian [1914-1997]
 Porter, Duncan M. [1937-]
 Ramos, Julieta [1940-]
 [Reichenbach, Heinrich Gottlieb Ludwig] [1793-1879]
 Restrepo, Rubén [1939-1996]
 Ridoutt, César Augusto [1901-1956]
 Rivera, Lucio [1937-]
 Rosa, Mário
 1938. See May, E. G. L. & M. Rosa, 1938.
 Ross, Gary Noel
 Rzedowski, Jerzy [1926-]
 Salazar, Juan Aurelio
 Sallé, Auguste [1820-1896]
 Sánchez, Rosa [1935-]
 Schulz, Stefan, W. Francke, John A. Edgar and Dietrich Schneider
 Schulze, Leopold Ernst Paul [1887-1949]
 Scopoli, Giovanni Antonio
 [1771]. *V. Observationes*... ("1772", [22 August 1771])...
 1777. *Introductio*... ([13 April])...
 Sharp, David
 1899. *Insects*... ([16 November])...
 Sherborn, Charles Davies
 1902. *Index*... ([October])...
 Shoumatoff, Nicholas [1918-]
 Stahl, Agustín [1842-1917]
 Sulzer, Johann Heinrich
 1776. *Abgekürzte*... ([21 April])...
 Suplicy, Nelson, Filho, Eloys J. Giacomelli, A. S. Sampaio and Antônio Orlando
 Swainson, William, and William Edward Shuckard
 1840. *On the history*... ([December])...
 Swezey, Otto Herman
 1913. *Miscellaneous notes*... ([22 April])...
 1923. *Records of introduction*... ([4 September])...
 Travassos, Lauro Pereira, and Edward George Last May
 Vaurie, Patricia [1909-1982]
 Vázquez, Leonila [1914-1995]
 Weber, Friedrich [1781-1823] [nec Friedrich August]
 West, Brian K.
 Westwood, John Obadiah
 1837b-[42]d. *Illustrations*... 1: xxvi + 123 pp., 50 pls. ([August 1837]);
 2: vi + 100 pp., 50 pls. ([1840]); 3: vi + 94 pp., 50 pls. ([1842])...
 1841-42a. *Arcana entomologica*... 1(1): 1-16, pls. 1-4 ([1 May 1841],
 (2): 17-32, pls. 5-8 ([1 July 1841]), (3): 33-48, pls. 9-12 ([1 September 1841]), (4): 49-64, pls. 13-16 ([1 November 1841]), (5): 65-80, pls. 17-20 ([1 January 1842])...
 White, Adam [1817-1879]
 Wiggins, Ira Loren [1899-1987], and Duncan M. Porter
 Wood, John George
 1863. *The Illustrated*... [new species: *Morpho neoptolemus*]
 1874. *Insects*... ([December])...
 Wygodzinsky, Petr Wolfgang [1916-1987]
 Zaragoza, Santiago [1935-]
 Zschach, Johann Jacob
 1788. *Museum*... ([14 July])...

REVISED FAMILY LIST FOR LEPIDOPTERA

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The following family list supercedes my listing used in "Keys to Families of Lepidoptera" (1996. *Trop. Lepid.*, 4 (Suppl. 3):1-28). The reason for this involves the transfer of the family Ochseneimeriidae from Tineoidea to Yponomeutoidea, due to confirmation that the pupa is lacking dorsal spines (Davis, pers. comm.): all known Tineoidea have spines. Consequently, family numbers from Amphitheriidae to Epermeniididae are reduced by one number. Ochseneimeriidae are now placed as family number 48, just before Glyphipterigidae. Also, added subfamilies include Oditinae in Lecithoceridae and Ypsolophinae in Plutellidae.

It may be well to also note here that recent splitting of some families is not necessary. Thus, differences that have been promoted to split Pyralidae into "Crambidae" and "Pyralidae" are no different in extent than between some subfamilies of Nymphalidae, Arctiidae, and Noctuidae, which also on occasion have been suggested should be split off to separate families. In each of these cases (Pyralidae, Nymphalidae, Arctiidae, and Noctuidae), I have placed such divisions as "Groups" within a family, a level between family and subfamily, thus maintaining a better integrity of family-level status relative to all Lepidoptera families. Likewise, four superfamilies (Tineoidea, Cossioidea, Papilionoidea, and Bombycoidea) have "Series" subdivisions added to preclude the need for unwarranted splitting of these superfamilies.

An item to also note includes the split of the Arctiidae subfamilies Ctenuchinae (all New World) and Syntominae (all Old World): these subfamilies are often combined by other workers but are divergent enough to be in separate subfamilies due to the lack of tympanal organs in Syntominae. Also, Noctuidae subfamilies are arranged according to the most recent research: subfamilies that are not listed involve tribes often elevated to subfamily status, particularly among some European workers, but this extensive splitting is unwarranted.

The controversy regarding flannel moths and slug caterpillar moths, and their relatives, should be noted further as well. Megalopygidae and Limacodidae are placed in separate superfamilies due to their ancestral lineages: their similar caterpillars are only homologous due to convergent evolution to similar feeding and defensive strategies, and are not similar because of some immediate common ancestor. Ditrysia are separated into two sections, Tineina and Cossina, due to early evolutionary divergence

of the thoracic heart, positioned either ventrally (Tineina) or dorsally (Cossina). Thus, families Acrolophidae to Megalopygidae are all in the Tineina lineage and families Cossidae to Noctuidae are all in the Cossina lineage. Consequently, the Megalopygidae and Limacodidae are in different sections of Ditrysia and not in a common superfamily as some authors claim: their form is a matter of evolutionary convergence on a similar morphology, not an indication of a recent common ancestor. Flannel moths are related to burnet moths (Zygaenidae), while the slug caterpillar moth families (Dalceridae, Limacodidae, and Chrysopolomidae) are related to carpenterworm moths (Cossidae).

The sections of Ditrysia are each likewise split from early divergences into two subsections: Tineina and Sesiina in Section Tineina, and Cossina and Bombycina in Section Cossina. These early divergences into 4 lineages (2 in each major lineage of Ditrysia) shows why earlier classifications could not settle on where to place the most primitive families: the Tineina families in Tineoidea (like Acrolophidae and Tineidae) and in Sesiioidea (like Brachodidae and Sesiidae), and the Cossina families in Cossioidea (like Cossidae and Tortricidae) and in Calliduloidea (like Ratardidae). Many authors placed these families near each other, since all show some primitive characters. Yet, when one follows the present classification, one can easily note the early divergences into the 4 subsections in a logical manner, with each of these subsections having primitive families retaining characteristics of some pre-Ditrysian ancestor. The present classification, thus, provides a logical phylogeny and arrangement of the families as they progressed from pre-Ditrysian ancestors to advanced groups, in each lineage having the originator groups still evident in the most primitive families and with each lineage then separately developing a phylogeny to the most advanced family within that lineage: thus Acrolophidae to Pterophoridae in Subsection Tineina, from Brachodidae to Megalopygidae in Subsection Sesiina, from Cossidae to Tortricidae in Subsection Cossina, and from Ratardidae to Noctuidae in Subsection Bombycina. Ratardidae-like moths, then, were the basic cossine-type ancestors of the butterflies and the higher macro-moths.

For further details, see my work entitled, "Classification of Lepidoptera. Part 1. Introduction" (1998. *Holarctic Lepid.*, 5 (Suppl. 1):1-120).

LEPIDOPTERA

Suborder ZEUGLOPTERA

MICROPTERIGOIDEA

1. MICROPTERIGIDAE
- Mandibulate Archaic Moths

Suborder AGLOSSATA

AGATHIPHAGOIDEA

2. AGATHIPHAGIDAE - Kauri Moths

Suborder HETEROBATHMIINA

HETEROBATHMIOIDEA

3. HETEROBATHMIIDAE
- Valdivian Archaic Moths

Suborder GLOSSATA

Cohort DACNONYPHA

Infraorder DACNONYPHA

ERIOCRANIOIDEA

4. ERIOCRANIIDAE
- Sparkling Archaic Sun Moths
5. ACANTHOPTEROCETIDAE
- Archaic Sun Moths

Acanthopteroctetinae
Catapteriginae

Infraorder LOPHOCORONINA

LOPHOCORONOIDEA

6. LOPHOCORONIDAE
- Australian Archaic Sun Moths

Cohort MYOGLOSSATA

Infraorder NEOPSEUSTINA

NEOPSEUSTOIDEA

7. NEOPSEUSTIDAE - Archaic Bell Moths

Infraorder EXOPORIA

MNESARCHAEOIDEA

8. MNESARCHAEIDAE
- New Zealand Primitive Moths

HEPIALOIDEA

9. NEOTHEORIDAE
- Amazonian Primitive Ghost Moths
10. ANOMOSSETIDAE
- Australian Primitive Ghost Moths
11. PROTOTHEORIDAE
- African Primitive Ghost Moths

12. HEPIALIDAE - Ghost Moths

13. PALAEOSSETIDAE
- Miniature Ghost Moths

Infraorder HETERONEURA

Division MONOTRYSIA

Section NEPTICULINA

NEPTICULOIDEA

14. NEPTICULIDAE - Pygmy Moths
- Pectinivalvinae
- Nepticulinae
15. OPOSTEGIDAE - Eye-Cap Moths

TISCHERIOIDEA

16. TISCHERIIDAE
- Trumpet Leafminer Moths

PALAEPHATOIDEA

17. PALAEPHATIDAE - Gondwanaland Moths

Section INCURVARIINA

INCURVARIOIDEA

18. INCURVARIIDAE - Leafcutter Moths
- Incurvariinae
- Crinopteryginae

19. CECIDOSIDAE - Gall Moths
20. PRODOXIDAE - Yucca Moths
Lamproiniinae
Prodoxinae
21. ADELIDAE - Longhorned Fairy Moths
22. HELIOZELIDAE - Shield Bearer Moths

Division DITRYZIA

Section TINEINA

Subsection TINEINA

TINEOIDEA

Series Tineiformes

23. ACROLOPHIDAE - Tube Moths
24. TINEIDAE - Fungus Moths
Nemapogoninae
Scardiinae
Euplocaminae
Tinissinae
Meessiinae
Teichobiinae
Dryadulinae
Setomorphinae
Phthoropoeinae
Myrmecozelinae
Siloscinae
Tineinae
Erechthiinae
Hieroxestinae
25. ERIOCOTTIDAE
- Old World Spiny-Winged Moths
Eriocottinae
Compsocteninae
26. PSYCHIDAE - Bagworm Moths
Penestoglossinae
Taleporiinae
Psychinae
Oiketicinae
27. ARRHENOPHANIDAE
- Tropical Lattice Moths

Series Gracillariiformes

28. AMPHITHERIDAE - Double-Eye Moths
29. SCHRECKENSTEINIIDAE
- Bristle-Legged Moths
30. DOUGLASIIDAE - Douglas Moths
31. BUCCULATRICIDAE
- Ribbed-Cocoon Maker Moths
32. GRACILLARIIDAE - Leafminer Moths
Gracillariinae
Lithocolletinae
Phyllocnistinae

GELECHIOIDEA

33. OECOPHORIDAE - Concealer Moths
Depressariinae
Ethmiinae
Peleopodinae
Autostichinae
Xyloryctinae
Stenommatinae
Oecophorinae
Hypertrophinae
Physoptilinae
Chimabachinae
Deuteroniinae
34. LECITHOCERIDAE
- Tropical Longhorned Moths
Ceuthomadarinae
Oditinae
Lecithocerinae
Torodorinae
35. ELACHISTIDAE - Grass Miner Moths
Coelopoetinae
Elachistinae
36. PTEROLONCHIDAE - Lance-Wing Moths
37. GELECHIIDAE - Twirler Moths
Gelechiinae
Pexicopiinae

- Dichomeridinae
38. BLASTOBASIDAE - Scavenger Moths
Symmocinae
Holcocerinae
Blastobasinae
39. COLEOPHORIDAE - Casebearer Moths
Coleophorinae
Batrachedrinae
40. MOMPHEIDAE - Mompha Moths
41. AGONOXENIDAE - Palm Moths
Agonoxeninae
Blastodacninae
42. COSMOPTERIGIDAE - Cosmet Moths
Antequerinae
Cosmopteriginae
Chrysopoleiinae
43. SCYTHRIDIDAE - Flower Moths

COPROMORPHOIDEA

44. COPROMORPHIDAE
- Tropical Fruitworm Moths
45. ALUCITIDAE - Many-Plumed Moths
46. CARPOSINIDAE - Fruitworm Moths
47. EPERMENIIDAE - Fringe-Tufted Moths
Epermeniinae
Ochromolopinae

YPONOMEUTOIDEA

48. OCHSENHEIMERIIDAE
- Cereal Stem Moths
49. GLYPHPTERIGIDAE - Sedge Moths
Orthoteliinae
Glyphipteriginae
50. PLUTELLIDAE - Diamondback Moths
Ypsolophinae
Plutellinae
Scythropinae
Praydinae
51. ATTEVIDAE - Tropical Ermine Moths
52. YPONOMEUTIDAE - Ermine Moths
Saridoscelinae
Yponomeutinae
Cedestinae
53. ARGYRESTHIIDAE
- Shiny Head-Standing Moths
54. LYONETIIDAE - Leaf Skeletonizer Moths
Cemiostominae
Lyonetiinae
Bedelliinae
55. ACROLEPIDAE
- False Diamondback Moths
56. HELIODINIDAE - Sun Moths

IMMOIDEA

57. IMMIDAE - Imma Moths

PYRALOIDEA

58. HYBLAEIDAE - Teak Moths
59. THYRIDIDAE
- Picture-Winged Leaf Moths
Whalleyaninae
Argyrotypinae
Thyridinae
Siculodinae
Striglininae
60. PYRALIDAE - Snout Moths
Group Crambina
Crambinae
Schoenobiinae
Cybalomiinae
Linostinae
Wurthiinae
Glaphyriinae
Dichogaminae
Scopariinae
Musotiminae
Midilinae
Nymphulinae
Odontiinae
Noordinae

- Evergestinae
Pyraustinae
Group Pyralina
Pyralinae
Chrysauginae
Galleriinae
Epipaschiinae
Phycitinae

PTEROPHOROIDEA

61. TINEODIDAE - False Plume Moths
62. OXYCHIROTIDAE - Tropical Plume Moths
63. PTEROPHORIDAE - Plume Moths
Macropiratininae
Agdistinae
Ochyroticinae
Deutercopinae
Pterophorinae

Subsection SESIINA

SESIOIDEA

64. BRACHODIDAE - Little Bear Moths
Pseudocossinae
Brachodinae
Phycodinae
65. SESIIDAE - Clearwing Moths
Tinithiinae
Paranthreninae
Sesiinae
66. URODIDAE - False Burnet Moths
Galacticinae
Urodinae
67. CHOREUTIDAE - Metalmark Moths
Millierinae
Brenthiinae
Choreutinae

ZYGAENOIDEA

68. HETEROGYNIDAE
- Mediterranean Burnet Moths
69. ZYGAENIDAE - Burnet Moths
Zygaeninae
Phaudinae
Charideinae
Chalcosiinae
Anomoeotinae
Procridinae
70. HIMANTOPTERIDAE
- Long-Tailed Burnet Moths
71. LACTURIDAE - Tropical Burnet Moths
72. SOMABRACHYIDAE
- Mediterranean Flannel Moths
73. MEGALOPYGIDAE - Flannel Moths
Aidinae
Megalopyginae
Trosiinae

Section COSSINA

Subsection COSSINA

COSSOIDEA

Series Cossiformes

74. COSSIDAE - Carpenterworm Moths
Chilecomadiinae
Hypoptinae
Cossulinae
Cossinae
Zeuzerinae
 75. DUDGEONEIDAE
- Dudgeon Carpenterworm Moths
 76. METARBELIDAE
- Tropical Carpenterworm Moths
- ##### Series Limacodiformes
77. CYCLOTORNIDAE
- Australian Parasite Moths
 78. EPIPYROPIDAE
- Planthopper Parasite Moths
Epiropyinae

- Heteropsychinae
79. DALCERIDAE
- Tropical Slug Caterpillar Moths
Acraginae
Dalcercinae
80. LIMACODIDAE - Slug Caterpillar Moths
81. CHRYSOPOLOMIDAE
- African Slug Caterpillar Moths
Ectropinae
Chrysopolominae
- CASTNIOIDEA**
82. CASTNIDAE - Giant Butterfly Moths
Synemoninae
Neocastniinae
Castniinae
- TORTRICOIDEA**
83. TORTRICIDAE - Leafroller Moths
Tortricinae
Chlidanotinae
Olethreutinae
- Subsection BOMBYCINA**
- CALLIDULOIDEA**
84. RATARDIDAE - Oriental Parnassian Moths
85. PTEROTHYSANIDAE - Parnassian Moths
Pterothysaninae
Hibridinae
86. CALLIDULIDAE
- Old World Butterfly Moths
Griveaudiinae
Callidulinae
- URANIOIDEA**
87. EPICOPEIIDAE
- Oriental Swallowtail Moths
Schistomitridinae
Epicopeiinae
88. APOPROGONIDAE
- African Skipper Moths
89. SEMATURIDAE
- American Swallowtail Moths
90. URANIIDAE - Swallowtail Moths
Uraninae
Microniinae
91. EPIPLEMIDAE - Crenulate Moths
- GEOMETROIDEA**
92. GEOMETRIDAE - Geometer Moths
Archiearinae
Oenochrominae
Ennominae
Geometrinae
Sterrhinae
Larentiinae
93. HEDYLIDAE - American Butterfly Moths
- PAPILIONOIDEA**
Series Hesperiiiformes
94. HESPERIIDAE - Skipper Butterflies
Megathyminae
Coeliadinae
Pyrrhopyginae
Pyrginae
Trapezitinae
Heteropterinae
Hesperiinae
Series Papilioniformes
95. PAPILIONIDAE - Swallowtail Butterflies
Baroniinae
Parnassiinae
Papilioninae
96. PIERIDAE - Yellow-White Butterflies
Pseudopontiinae
Dismorphiinae
Pierinae
Coliadinae
97. LYCAENIDAE
- Gossamer-Winged Butterflies
Lipteninae
Poritiinae
Liphyrinae
Miletinae
Curetinae
Lycaeninae
Theclinae
Polyommatainae
98. RIODINIDAE - Metalmark Butterflies
Euselasiinae
Riodininae
99. LIBYTHEIDAE - Snout Butterflies
100. NYMPHALIDAE
- Brush-Footed Butterflies
Group Nymphaliniina
Danainae
Ithomiinae
Acraeinae
Heliconiinae
Nymphalinae
Group Satyriniina
Calinaginae
Apaturinae
Amathusiinae
Morphinae
Brassoliniinae
Satyrinae
- DREPANOIDEA**
101. AXIIDAE - Gold Moths
102. THYATIRIDAE - False Owlet Moths
Thyatirinae
Polyplocinae
103. CYCLIDIIDAE - Giant Hooktip Moths
104. DREPANIDAE - Hooktip Moths
Drepaninae
Oretinae
Nidarinae
- BOMBYCOIDEA**
Series Bombyciformes
105. CARTHAEIDAE
- Australian Silkworm Moths
106. EUPTEROTIDAE - Giant Lappet Moths
Janinae
Eupterotinae
107. APATELODIDAE
- American Silkworm Moths
Apatelodinae
Epiinae
Phiditiinae
108. BOMBYCIDAE - Silkworm Moths
Bombycinae
Prismostictinae
109. MIMALLONIDAE - Sackbearer Moths
110. ANTHELIDAE - Australian Lappet Moths
Munychryiinae
Anthelinae
111. LASIOCAMPIDAE - Lappet Moths
Chondrosteginae
Chionopsychinae
Archaeopachinae
Gonometinae
Macromphaliinae
Gastropachinae
Lasioscampinae
Series Saturniiformes
112. ENDROMIDAE - Glory Moths
Endrominae
Mirinae
113. LEMONIIDAE - Autumn Silkworm Moths
Lemoninae
Sabaliinae
114. BRAHMAEIDAE - Brahmin Moths
Dactyloceratinae
Brahmaeinae
115. OXYTENIDAE
- Tropical American Silkworm Moths
116. CERCOPHANIDAE
- Andean Moon Moths
Cercophaninae
Janiodinae
117. SATURNIIDAE - Emperor Moths
Arsenurinae
Ceratocampinae
Hemileucinae
Agliinae
Ludiinae
Salassinae
Saturniinae
- SPHINGOIDEA**
118. SPHINGIDAE - Hawk Moths
Sphinginae
Macroglossinae
- NOCTUOIDEA**
119. NOTODONTIDAE - Prominent Moths
Notodontinae
Thaumetopoeinae
120. DIOPTIDAE - American False Tiger Moths
Dioptinae
Doinae
121. THYRETIDAE - African Maiden Moths
122. LYMANTRIIDAE - Tussock Moths
123. ARCTIIDAE - Tiger Moths
Group Pericopiniina
Pericopinae
Group Arctiiniina
Lithosiinae
Arctiinae
Group Ctenuchiniina
Ctenuchinae
Syntominiinae
124. NOCTUIDAE - Owlet Moths
Group Aganainina
Aganaininae
Group Hermiiniina
Hermiiniinae
Group Noctuiniina
Rivulinae
Hypenodinae
Hypeninae
Catocalinae
Euteliinae
Stictopterinae
Sarothripinae
Chloephorinae
Nolinae
Plusiinae
Acontiinae
Amphipyryinae
Psaphidinae
Agaristinae
Coccytiinae
Heliothinae
Acronictinae
Pantheinae
Bryophilinae
Cuculliinae
Hadeninae
Noctuinae

- ACANTHOPTEROCETIDAE** - 5
 Acanthopteroctetinae - 5
 Acontinae - 124
 Acraeinae - 100
 Acraginae - 79
ACROLEPHIDAE - 56
ACROLOPHIDAE - 23
 Acronictinae - 124
ADELIDAE - 21
 Aganainae - 124
 Aganainina - 124
 Agaristinae - 124
AGATHIPHAGIDAE - 2
 Agathiphagoidea - 2
 Agdistinae - 64
 Agliinae - 117
 Aglossata - 2-3
AGONOXENIDAE - 41
 Agonoxeninae - 41
 Aidinae - 73
ALUCITIDAE - 45
 Amathusiinae - 100
 Amphipyridinae - 124
AMPHITHERIDAE - 28
 Anomoetinae - 69
ANOMOSETIDAE - 10
 Antequerinae - 42
ANTHELIDAE - 110
 Anthelinae - 110
APATELODIDAE - 107
 Apatelodinae - 107
 Apaturinae - 100
APOPROGONIDAE - 88
 Archaeopachinae - 111
 Archiarinae - 92
ARCTIIDAE - 123
 Arctiinae - 123
 Arctiina - 123
ARGYRESTHIDAE - 53
 Argyrotypinae - 59
ARRHENOPHANIDAE - 27
 Arsenurinae - 117
ATTEVIDAE - 51
 Autostichinae - 33
AXIIDAE - 101
 Baroniinae - 95
 Batrachedrinae - 39
 Bedelliinae - 55
BLASTOBASIDAE - 38
 Blastobasinae - 38
 Blastodacninae - 41
BOMBYCIDAE - 108
 Bombyciformes - 105-111
 Bombycina - 88-124
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 Bombycoidea - 105-117
BRACHODIDAE - 64
 Brachodinae - 64
BRAHMAEIDAE - 114
 Brahmaeinae - 114
 Brassolinae - 100
 Brenthiinae - 67
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BOOK NEWS

COLLINS FIELD GUIDE: BUTTERFLIES OF BRITAIN & EUROPE

by T. Tolman. 1997. 320pp, 104 pl. (13 x 19cm). Harper Collins, London. £17.99 (cloth).

This new field guide for European butterflies and skippers basically replaces the well-known Higgins and Riley work of 20 years ago. It is well done, with excellent color plates: 440 species are illustrated in over 2,000 color figures. Range maps are adjacent to the text for each species account. As with older European field guides, this new one continues the unfortunate tradition of ignoring Georgia, Turkey and European Russia, as well as the new countries of Belarus and Ukraine, although the range maps do show extensions into these regions for species that occur there. A paper bound version is not indicated but is sure to follow, yet with 104 color plates the price of this new book certainly is a bargain even in the cloth edition.

DIE GROßSCHMETTERLINGE (MAKROLEPIDOPTERA) DER RAST- ATTER RHEINAUE: Habitatwahl sowie Überflutungstoleranz und Überlebensstrategien bei Hochwasser.

by C. Köppel. In *Neue Entomologische Nachrichten*, Vol. 39. 624pp (16 x 24cm). DM 160 (paper). Publ.: U. Eitschberger, Marktleuthen, Germany.

This work is the author's doctoral dissertation in natural history at the University of Karlsruhe, Karlsruhe, Germany. The text is in German, with a short English summary. The work summarizes an ecological and faunal study of the Lepidoptera of the Rastatter Rheinaue nature reserve, in the state of Baden-Württemberg, for the years 1992-94, in terms of comparing historical records with current biodiversity of the area for conservation needs.

A TAXONOMICAL AND ECOLOGICAL STUDY OF THE WINTER GEOMETRID MOTHS (Lepidoptera, Geometridae) FROM JAPAN

by H. Nakajima. 1998. In *Tinea* (Tokyo), Vol. 15, Suppl. 2. 246pp (60 pl.) (18 x 25cm). Cost? (paper). Publ.: Japan Heterocerists' Soc., Tokyo, Japan.

An excellent and authoritative review of the so-called winter moths of Japan. The plates include genitalia figures and some color plates of the adults and larvae. The work is in Japanese but there is a short English summary; plate legends are also in English.

THE BUTTERFLIES OF CANADA

by R. A. Layberry, P. W. Hall, and J. D. Lafontaine. 1998. 354pp, 32 pl. (21 x 28cm). Univ. Toronto Press, Toronto. \$29.95 (paper), \$100.00 (cloth).

A major large-format guide to the butterfly fauna of Canada, including nearly 300 species. Notes are included on biology and immature stages, hostplants, all subspecies, and distributions.

BUTTERFLIES OF NEW JERSEY:

A Guide to Their Status, Distribution, Conservation, and Appreciation

by M. Gochfeld and J. Burger. 1997. 330pp (13 x 19cm). Rutgers Univ. Press, New Brunswick, New Jersey. \$20.00 (paper), \$55.00 (cloth).

This regional field guide covers about 140 species of butterflies from New Jersey and nearby states. This excellent new guide emphasizes conservation of local species and is geared most to the so-called butterflyers.

MOTHS OF NEPAL. Part 5

edited by T. Haruta. 1998. In *Tinea* (Tokyo), Vol. 15, Suppl. 1. 314pp, pl. 129-160 (18 x 25cm). Cost: ca. ¥8,000 (paper). Publ.: Japan Heterocerists' Soc., Tokyo, Japan.

The 5th part of the series on the moth fauna of Nepal includes contributions from various authors on several moth families, with descriptions of new species interspersed in the catalog. The text is in English and is mainly a catalog of the collections from Nepal collected by H. Haruta. The excellent illustrations show the genitalia of new species as halftones, with adults on the color plates (plate numbering is sequential from in Part 1). As with the earlier parts, the treatment is disorganized and without any particular order within the series, families being treated repeatedly in each part as species seem to have been identified. Notwithstanding the title "Moths of Nepal," the current part includes a long article on the Noctuidae of the Himalayas region (by Hreblay and Ronkay, the only non-Japanese authors), and incongruently includes the descriptions of a number of new species endemic to Taiwan!

CATALOGUE OF THE BOHEMIAN LEPIDOPTERA

by I. Novák and J. Liška. 1997. In *Klapalekiana* (Prague), Vol. 33, Suppl. 159pp (16 x 23cm). Cost? (paper). Publ.: Czech Ent. Soc., Prague, Czech Republic.

All species of Lepidoptera known to occur in the province of Bohemia are listed, totalling 2,936 species. The catalog gives each name with the synonymy and authorship (in parentheses as needed), plus date of description. The notes section is in Czech and German; the introduction is in these languages plus English.

GLASFLÜGLERNACHWEISE IN ÖSTERREICH (Lepidoptera, Sesiidae)

by F. Pühringer. 1997. In *Mitteilungen der Entomologischen Arbeitsgemeinschaft Salzkammergut* (Gmunden), Vol. 2. 171pp (21 x 30cm). Cost? (paper). Publ.: Ent. Arbeitsgem. Salzkammergut, Gmunden, Austria.

This work is a distributional catalog of the clearwing moths of Austria, treating 46 species. All collection records are noted in detail for Austria. Distributional maps cover Austria in detail, plus additional maps showing ranges within Europe.

CONTRIBUTIONS TO THE KNOWLEDGE OF THE INSECTS OF THE PHILIPPINES, III

edited by W. A. Nässig, C. G. Treadaway, and J. Settele. 1998. In *Nachrichten des Entomologischen Vereins Apollo* (Frankfurt), Suppl. 17. 576 pp (15 x 21cm). Cost? (paper). Publ.: Ent. Verein Apollo, Frankfurt-am-Main, Germany.

This hefty third part of a series on the Lepidoptera of the Philippines continues a mixture of revisionary treatments on various families or genera. Several authors (mostly Germans) have contributed to this work, including papers on Sphingidae, Lasiocampidae, Saturniidae, Brahmaeidae, Sesiidae, Pyralidae, and Cosmopterigidae, plus one paper on Trichoptera. Earlier parts were in 1993 (Suppl. 12) and 1995 (Suppl. 14). Several color plates are included; texts are in English.

PASSINGS

† David E. Gaskin, 14 September 1998, in Guelph, Ontario, Canada. He was a well-known specialist of crambine Pyralidae. He was a professor at the University of Guelph for many years, formerly living in New Zealand. He was a charter member of ATL.

† James R. Merriitt, 20 May 1998, in Louisville, Kentucky, USA. He was a Charter Member of ATL, as well as of the Lepidopterist' Society.

MEETINGS

- 1998 Southern Lepidopterists' Society, October 3-4, Gainesville, Florida, USA
1999 Association for Tropical Lepidoptera: April 16-18, Gainesville, Florida, USA
Lepidopterists' Society, August 4-8, Sierra Vista, Arizona, USA
2000 Association for Tropical Lepidoptera: April 14-16, Gainesville, Florida, USA
Societas Europaea Lepidopterologica, June?, Bialowieza Forest, eastern Poland

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October 30, 1998