

entomology in England, who wrote, with William Spence, the first popular work in English on insects, *An Introduction to Entomology*, in 1815, and which was popular in America, too. Kirby corresponded with such American entomologists as Peck, Say, and Harris, and wrote many papers on entomology and described many of our insects in the *Fauna Boreali-Americana*.

PIERRE FRANCOIS MARIE AUGUSTE DEJEAN (1780-1845)

Prior to 1824, many American species of Carabidae, including California ones, were described by Pierre Francois Marie Auguste Dejean, who was born in France in 1780 and died in 1845. A soldier of fortune, aide-de-camp to Napoleon, an ardent collector, he finally accumulated the greatest collection of Coleoptera in the world. In 1837, it numbered over 22,000 species. Eschscholtz worked with Dejean in Paris, and after the death of Eschscholtz, Dejean used Eschscholtz's names and descriptions, giving him full credit, but as Dejean published the descriptions his name was given priority, and it is his name that is attached to the North American species which Eschscholtz collected in 1824.

1825 to 1865

During the nineteenth century, the number of entomologists increased, and there was a corresponding increase in the number of species described and in entomological literature. As this chapter is designed to indicate only the general growth of entomology in Europe in comparison with its rise in North America, it is necessary to mention only those Europeans who were most active in describing North American insects up to the middle of the 19th century.

Etienne Mulsant, who was born in France in 1797 and who died in 1880, named many of our common on and introduced species of Coccinellidae, on which family he was the world authority.

Carl Gustav von Mannerheim (1804-1854), the celebrated entomologist and governor of Finland, when he worked up the material in the museums of St. Petersburg, Dorpat, and Moscow, described a large number of beetles from Alaska and California, especially those collected by Eschscholtz, F. P. Wrangell, and others.

Jean Alphonse Boisduval (1799-1879), the famous French lepidopterist, who also described many Coleoptera, named a number of North American insects including many Lepidoptera collected by Lorquin in California. In addition, he was the author of important papers relating to North American entomology.

Hermann Loew, of Germany (1807-1879), one of the world's greatest students of the Diptera, and his papers relating to North America, have been already mentioned in connection with Baron Osten-Sacken.

Herman Carl Conrad Burmeister (1807-1892), the noted German entomologist, zoologist and paleontologist, described many native and imported insects of North America and was a voluminous contributor to all branches of natural history.

Achille Guenée (1809-1880), one of the outstanding students of Lepidoptera in France and associated with de Villiers and Boisduval, described a great many North American moths, many from California, collected by Lorquin for Boisduval, who gave them to Guenée.

Many moths of economic importance over the world, some of which now occur in America, were described by Philipp Christoph Zeller, the German student and world authority on Microlepidoptera.

Various western beetles, some taken in Alaska and northern California by Russian scientists were described by the famous Russian entomologist, Victor Ivanovich Motschulsky (1810-1871). In 1853, he came to the United States and visited New York, Niagara Falls, Cincinnati, New Orleans, Georgia, Washington, Philadelphia and Boston. He was interested in all phases of entomology and, although he worked in other orders, his descriptions were chiefly of beetles.

Michel Edmond de Selys-Longchamps (1813-1900), Belgian political official and at one time world authority on Odonata, named

a number of neuropteroid insects from America, and he had one of the finest collections of Neuroptera in the world.

Many species of North American beetles were named by Carl Heinrich Boheman (1796-1868), a Swedish coleopterist who specialized on the Chrysomelidae and Rhynchophora and who assisted C. J. Schoenherr in the great work on Curculionidae. In Paris, in 1805, there appeared *Insectes recueillis en Afrique et en Amerique . . . et dans les Etats Unis, pendant les Années 1786-1797*, by A. M. F. J. Palisot de Beauvois. In this the localities are sometimes given as United States of America, Pennsylvania, Virginia, Caroline du Sud.

An English book that probably circulated in this country was Edward Newman's *A familiar introduction to the History of Insects, being a new and greatly improved edition of the Grammar of Entomology* (London, 1841, 288 pages). The first edition appeared in 1835 and in 1837 a second edition was announced, but it was abandoned and the above edition was published in 1841. This was a general book on entomology, intended for beginners.

VINCENT KOLLAR (1797-1860)

In 1840, Vincent Kollar's *A Treatise on Insects injurious to Gardeners, Foresters, & Farmers* made its appearance in London, with notes by J. O. Westwood. The book was translated from the German by Jane and Mary Loudon. In the 1830's, the Royal Agricultural Society of Vienna recommended to the government the publication of a popular book on insects injurious to vegetation. The work descended upon Vincent Kollar and Joseph Schmidberger, and the book appeared under Kollar's name in 1837. Kollar was born in Prussian Silesia in 1797 and died in 1860. At the age of twenty he joined the Museum of Natural History in Vienna, and there spent the rest of his active life, rising from the lowest position to the highest. He was particularly interested in life histories and his book was carefully written and sound, although practical methods of control were absent. Trapping, hand picking, plowing, tobacco smoke for aphids, the use of boiling water, lye, cutting and burning are all mentioned. The arrangement for the most part is on a host basis. After its translation, Kollar's book circulated in the United States, and even now copies may occasionally be purchased at second-hand stores.

SUMMARY

Summarizing in a general way, it may be said that many of our Lepidoptera were described by Hübner, Cramer, Madam Merian, Boisduval, Herrich-Schäffer, Doubleday, Drury, Westwood, Guenée; many of our Hymenoptera by St. Fargeau, Newman and Haliday, and M. de Saussure; many of our Diptera by Desvoidy, Macquart, Meigen, Wiedemann, Zetterstett, and Loew; many of our Coleoptera by Aube, Bonelli, Erichson, Dalman, Dejean, Illiger, Klug, Knoch, Eschscholtz, Forster, Germar, Gravenhorst, Guérin, Hope, Lacordaire, Newman, Motschulsky, Paykull, Schonherr, and Burmeister; many of our Hemiptera by Fabricius, Linné, Burmeister, Amyot and Serville, Dallas, Signoret, Stål, Herrich-Schäffer, Hahn and Haliday; many of our Orthoptera by Serville and Burmeister; some of our Neuroptera by Burmeister, de Selys-Longchamps, Pictet and Hagen; all in addition to the general works by Europeans containing descriptions of American insects, and in addition to the British Museum Catalogues.

Much more could be written of North American insects described in Europe, of early collectors in North America, and of additional European describers of North American insects, but enough has been said to demonstrate the fact that it was a long while after Thomas Say became active before Europeans ceased to describe North American insects.

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ADDITIONS AND CORRECTIONS TO THE BIBLIOGRAPHY OF BUTTERFLIES, IN THE ATLAS OF NEOTROPICAL LEPIDOPTERA. IV. COMPRISING MOSTLY WORKS PUBLISHED IN 1999

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The third 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, was published a year ago (Lamas, 1999, *Lepidoptera News* 1999(3): 33-43). The 320 additional references included herein comprise mostly works published in 1999, such as were recorded until August 30th, 2000.

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.

Olaf Mielke, Lázaro Roque, Julián Salazar, George Beccaloni and Angel Viloria were particularly helpful in providing data on publications omitted previously, and I am most grateful for their kind interest and assistance. Rienk de Jong generously provided accurate dates of publication for the different parts of Sepp's *Surinaamsche Vlinders...* [1829-52].

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- Vitale, Fabio**
1999a. See Bollino, M. & F. Vitale, 1999a.
1999b. See Bollino, M. & F. Vitale, 1999b.
- Vitale, Fabio, and Maurizio Bollino**
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1999b. Errata. *Lambillionea* 99(2)(2): 257, 4 figs. (June) [Patricia deryllidas aldazorum Vitale & Bollino, P. d. *onorei* Vitale & Bollino; Ecuador]
- Vitali-Veiga, Maria de Jesus, João Cloves Stanzani Dutra and Vera Lúcia Letizio Machado**
1999. Visitantes florais de *Lagerstroemia speciosa* (Pers.) (Lythraceae). *Revista brasileira de Zoologia* 16(2): 397-407, 7 figs., 3 tabs. (30 June) [*Methona themisto* (Hübner), Hesperidae; Brazil]
- Vukusic, Peter, J. Roy Sambles, C. R. Lawrence and Robin J. Wootton**
1999. Quantified interference and diffraction in single *Morpho* butterfly scales. *Proceedings of the royal Society of London (B)* 266(1427): 1403-1411, 6 figs. (22 July) [M. *rhetenor* (Cramer), M. *didius* Hopffer]
- Walla, Thomas R.**
1999. See DeVries, P. J. et al., 1999.
- Wallace, John R.**
1999. See Lazarus, L. L. et al., 1999.
- Walton, Richard K., and Lincoln Pierson Brower**
1999. What we know that ain't so... The 1998 Fall Atlantic Coast Monarch migration. *American Butterflies* 7(3): 18-25, 6 figs., 1 tab. [*Danaus plexippus* (Linnaeus); Mexico]
- Warren, Andrew D.**
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1999a. Papilionidae y Pieridae de México: Distribución geográfica e ilustración, by Jorge E. Llorente-Bousquets, Leonor Oñate-Ocaña, Armando Luis-Martínez, and Isabel Vargas-Fernández. 1997. *Journal of the Lepidopterists' Society* 52(3): 342-343 (11 May) [general; book review]
1999b. *Region 24: Neotropics (Mexico)*, pp. 70-73. In: Swengel, A. B. & P. A. Opler (Eds.), *NABA Fourth of July Butterfly Counts. 1998 Report*. Morristown, North American Butterfly Association, Inc. [general]
- Warren, Andrew D., and Jorge Enrique Llorente**
1999. Butterflies of Mismaloya, Jalisco, and adjacent parts of Banderas Bay and southern Nayarit, Mexico. *Dugesiana* 6(1): 17-32 (July) [general]
- Warren, Andrew D., and Luis Lamberto González**
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- Warren, Andrew D., and Paul Alexander Opler**
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- Wassenaar Leonard I., and Keith A. Hobson**
1998. Natal origins of migratory Monarch butterflies at wintering colonies in Mexico: New isotopic evidence. *Proceedings of the national Academy of Sciences of the USA* 95(26): 15436-15439, 3 figs., 1 tab. (22 December) [*Danaus plexippus* (Linnaeus)]
- Weeks, Andrew Gray, Jr.**
1901. *Illustrations of hitherto unfigured Lepidoptera*. Boston, Author. 31 pp., 5 + 6 pls. (July) [a preprint of the first four signatures of his *Illustrations of diurnal Lepidoptera*, 1905, q.v.] [general; Mexico, Colombia, Bolivia]
- West, Brian K.**
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- Bahamas]
- Wetherbee, David Kenneth**
- 1985a. *Zoological exploration of Haiti for endemic species (Supplementing a similar work on República Dominicana)*. Shelburne, Author. 557 pp., figs. [general; history]
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- 1985c. *The Sphinx-moths (Sphingidae) of Hispaniola and the 18th Century moth paintings of Rabié*. Shelburne, Author. 69 pp., figs. [*Papilio aristodorus* Esper, *P. machaonides* Esper, *Anetia pantherata* (Martyn), *Panoquina nero* (Fabricius); history; Haiti]
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- Wettengl, Kurt**
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- Whalley, Paul Ernest Sutton**
1988. *Butterfly & moth*. New York, Alfred A. Knopf. 64 pp., figs. [general]
- Whu, Mary**
1993. See Gómez, H. & M. Whu, 1993.
- Whu, Mary, and Luis Valdivieso**
1999. Distribución y comportamiento de ocho especies de *Trichogramma* y *Trichogrammatoidea* (Hymenoptera: Trichogrammatidae) en el Perú. *Revista peruana de Entomología* 41: 61-68, 7 figs., 3 tabs. (20 October) [*Heraclides thoas* (Linnaeus), *Dione juno* (Cramer), *Quinta cannae* (Herrich-Schäffer); parasitoids]
- Wieloch, Alfredo Hannemann**
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- Wilkinson, Ronald Sterne**
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- Willig, Michael R.**
1996. See Garrison, R. W. & M. R. Willig, 1996.
- Willis, Jake**
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- Willmott, Keith Richard**
1999. See Pyrcz, T. W. et al., 1999.
- Willmott, Keith Richard, and Jason Piers Wilton Hall**
1999. Taxonomic notes on Ecuadorian *Adelpha*, with the description of two new species and seven new subspecies (Lepidoptera: Nymphalidae: Limenitidinae). *Tropical Lepidoptera* 10(1): 1-17, 20 figs. ("30 November" [30 December]) [*A. hesterbergi*, *A. lamasi*, *A. salus emmeli*, *A. attica hemileuca*, *A. iphichus estrecha*, *A. iphicleola thessalita*, *A. hyas hewitsoni*, *A. radiata explicator*, *A. r. aiellae*; mimicry; behavior; Central and South America]
- Wojtusiak, Janusz**
1999. See Pyrcz, T. W. & J. Wojtusiak, 1999.
- Wojtusiak, Janusz, and Fernando Rey**
1999. Forest-paramo ecotone butterflies of the genus *Catantix* in the Tamá range, Venezuela-Colombia border: *C. uricoecheae inopa* new subsp. and *C. tricolor tomasi* new subsp. *Lambillionea* 99(1)(2): 87-90, 6 figs. (March)
- Wootton, Robin J.**
1999. See Vukusic, P. et al., 1999.
- Yanes, Aleida**
1998. See Hurtado, L. et al., 1998.
- Zanotto, Paolo M. A.**
1997. See Ribeiro, B. M. et al., 1997.
- Zanuncio, José Cola**
1993. See Santos, G. P. et al., 1993.
1998. See Moreira, L. A. et al., 1998.
- Zanuncio, José Cola, Germi Porto Santos, Dalva L. Q. Santana and Teresinha Vinha Zanuncio**
1993. *Controle de lagartas desfolhadoras do eucalipto*, pp. 67-92, fig. 46, tab. 1. In: Zanuncio, J. C. (Ed.), *Manual de pragas em florestas. Lepidoptera desfolhadores de eucalipto: Biologia, ecologia e controle*. Viçosa, IPEF/SIF [*Euselasia euploea eucerus* (Hewitson), *E. hygenius occulta* Stichel; host plants; parasitoids; Brazil]
- Zanuncio, Teresinha Vinha**
- 1993a. See Santos, G. P. et al., 1993.
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- Zitani, Nina M., Scott R. Shaw and Daniel H. Janzen**
1998. Systematics of Costa Rican *Meteorus* (Hymenoptera: Braconidae: Meteorinae) species lacking a dorsope. *Journal of Hymenoptera Research* 7(2): 182-208, 28 figs. (20 October) [*Chiomara asychis* (Stoll), *Pyrgus* sp., *Staphylus azteca* (Scudder); host plants; parasitoids; Costa Rica]
- Zucoloto, Fernando Sérgio**
1999. See Barros, H. C. H. & F. S. Zucoloto, 1999.

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- Arnett, Ross H., Jr. [1919-1999]
- Bernardi, Georges [1922-1999]
- Boulet, Eugène [1851-1923]
- Bourgogne, Jean [1903-1999]
- Breyer, Alberto
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- Brown, John Wesley [1951-]
- Burmeister, Hermann Carl Conrad [1807-1892]
- 1878-79a. *Description... Eudamus punctiger, Eurycides [sic] phanias*
- Butler, Arthur Gardiner, and Herbert Druce
1872. *Descriptions... Helias lactifera, Aegiale indecisa*
- Domínguez, Oscar Enrique
- Dominguez, Oscar Enrique, and Bruce A. McPherson
- Doubleday, Edward [1810-1849]
- 1847c. *The genera... 55-66, pl. 8...*
- Drapiez, Pierre Auguste Joseph [1778-1856]
1820. *Description de cinq espèces...*
1821. *Description de neuf espèces...*
- Duchêne, Gérard
1985. *Morpho amphitrion [sic]* Staudinger...
- Evans, William Harry [1876-1956]
1952. *A catalogue... C. zilpa namba...*
- Gistel, Johann von Nepomuk Franz Xaver [1803-1873]
1848. *Naturgeschichte... new names: Epula, Podalirius...*
- Haensch, Richard
1898. [Notes]... (14)-(16), (20)-(21)...
- 1899a. [Notes]... (5)-(6), (17)-(19), (22)-(23)...
- Holland, William Jacob [1848-1932]
1916. *The Lepidoptera... insulae-pinorum, Phemiades antiqua var. haitensis*
- Hopp, Walter Ernst [1884-1958]
1925. See Hering, M. E. R. & W. Hopp...
- Krüger, Eugen
- 1925a. *Die Morphiden... host plants; new variety: Morpho theseus var. pacificus*
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1977. *Annotated... 303 pp. (22 February)...*
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- 1979b. *Descripción...*
- Mazokhin-Porshniakov, Georgii Aleksandrovich [1924-1998]
- Mielke, Olaf Hermann Hendrik [1941-]
1992. *Notas sinónimas... ("15 December 1991", 15 September 1992)...*
- Mielke, Olaf Hermann Hendrik, and Mirna Martins Casagrande
1992. *Lepidoptera: Papilionoidea... ("1991", July 1992)*

- Niepert, Friedrich Wilhelm [1862-1936]
 [1914]b. [Notes]... new taxa: *Dismorphia*...
- Percheron, Achille Remi [1797-1869]
 1835a. (& *passim*). Cethosie... In: Guérin-Ménéville...
- Philippi, Rudolph Amandus [1808-1904]
 1859b. Descripción... *bissexguttatus*, *S. flavimargo*,...
- Pittier, Henri François [1857-1950]
 1895. Apéndice... *físico-geográfico*...
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 1897. *Invertebrados*... 66 pp. [also in *Anales del Instituto físico-geográfico nacional de Costa Rica* 7: 97-116; 1897]...
- Plötz, Carl [1813-1886]
 1882b. Die Hesperinen... *H. phocylides*,...
- 1884e. Die Hesperinen... September [general]
- Reakirt, Tryon 1844-1872 (73?)
 [1867]. Descriptions... (5): 337-342...
- Reed, Carlos Samuel [1888-1949]
 1922. *La concuna o isoca de los alfalfares de Mendoza*. (Colias lesbia Fabr.). Mendoza, Tipografía "Casa Argentina Carlos Best". 20 pp., 4 figs. [egg, larva, pupa, imago; host plant; parasitoids; predators; behavior; Argentina]
- Riley, D.
 1980. See Elliott, N. B. et al., 1980.
- Salvin, Osbert, and Frederick Du Cane Godman
 1869. On some... *pyropina*, *Pierella rubecula*, *Hetaera pallida*, *Pierella ocreata*... *Oressinoma sorata*... *Callicore eupepla*, *C. phloea*, *Batesia hypoxantha*, *B. hemichrysa*...
- Santis, Luis de [-2000]
- Sepp, Jan [1778-1853]
 [1829-43] *Surinaamsche*... 1(1): 1-16, pls. 1-4 ([1829]), (2): 17-24, pls. 5-8 ([1829]), (3): 25-32, pls. 9-12 ([1830]), (4): 33-40, pls. 13-16 ([1830]), (5): 41-48, pls. 17-20 ([1832]), (6): 49-56, pls. 21-24 ([1832-40]), (7): 57-64, pls. 25-28 ([1832-40]), (8): 65-72, pls. 29-32 ([18 December 1840]), (9): 73-80, pls. 33-36 ([11 December 1841]), (10): 81-88, pls. 37-40 ([11 December 1841]), (11): 89-96, pls. 41-44 ([19 November 1842]), (12): 97-104, pls. 45-48 ([31 December 1842]), (13): i-viii, 105-108, pls. 49-50 ([29 December 1843]) [based on drawings and notes by H. J. Scheller] [general; host plants; larvae, pupae, imagines; new species: *Papilio baeton*, *P. leucogramma*, *P. ingae*, *P. hyperici*, *P. longirostris*, *P. erythromelas*, *P. pyrophoros*, *P. fulminator*, *P. lucidator*, *P. rubricollis*, *P. paullinae*]
- [1843-47] *Surinaamsche*... 2(13): 109-112, pls. 51-52 ([29 December 1843]), (14): 113-120, pls. 53-56 ([29 December 1843]), (15): 121-128, pls. 57-60 ([27 August 1844]), (16): 129-136, pls. 61-64 ([30 December 1844]), (17): 137-144, pls. 65-68 ([18 October 1845]), (18): 145-152, pls. 69-72 ([18 October 1845]), (19): 169-176, pls. 73-76 ([27 December 1845]), (20): 177-184, pls. 77-80 ([29 June 1846]), (21): 185-192, pls. 81-84 ([26 March 1847]), (22): 193-200, pls. 85-88 ([30 December 1846]), (23): 201-208, pls. 89-92 ([26 March 1847]), (24): 209-216, pls. 93-96 ([13 July 1847]), (25): i-iv, 217-224, pls. 97-100 ([31 December 1847]) [pp. 153-168 never published] [based on drawings and notes by H. J. Scheller] [general; host plants; larvae, pupae, imagines; new species: *Papilio decemmaculata*, *P. cassiae*, *Hesperia octomaculata*, *Papilio quadratum*, *P. xanthe*, *P. longicauda*, *P. tetrastigma*]
- [1848-52] *Surinaamsche*... 3(26): 225-232, pls. 101-104 ([12 August 1848]), (27): 233-240, pls. 105-108 ([19 September 1848]), (28): 241-248, pls. 109-112 ([30 December 1848]), (29): 249-256, pls. 113-116 ([12 September 1849]), (30): 257-264, pls. 117-120 ([10 December 1849]), (31): 265-272, pls. 121-124 ([25 October 1850]), (32): 273-280, pls. 125-128 ([31 December 1850]), (33): 281-288, pls. 129-132 ([31 July 1851]), (34): 289-296, pls. 133-136 ([31 July 1851]), (35): 297-304, pls. 137-140 ([12 November 1851]), (36): 305-312, pls. 141-144 ([19 December 1851]), (37): 313-320, pls. 145-148 ([26 November 1852]), (38): i-viii, 321-328, pls. 149-152 ([26 November 1852]) [based on drawings and notes by H. J. Scheller] [general; host plants; larvae, pupae, imagines; new species: *P. nigrocinctus*, *P. mammeae*, *P. uraniae*, *P. barcastus*, *P. albusta*, *P. flavomarginatus*, *P. dirceoides*]
- Skinner, Harold W. [1917-]
- Stichel, Hans Ferdinand Emil Julius [1862-1936]
 1895. [Notes]... (3)-(5), (9)-(10), (12)-(18)...
- 1897a. [Notes]... (2), (11)-(12), (18)-(21)...
- [delete 1900a]
 1902a. Aufteilung... [general; *Opoptera syyma fumosa*, *Catoblepia orgetoryx magnalis*... *amplior*, *S. josephus excultus*...]
- [delete 1902b]
 [delete 1903a]
 [delete 1905]
 [1914]c. [Notes]....
- Strand, Embrik [1876-1947]
 [1914]. [Notes]...
- Suffert, Ernst [?-1907]
 1897. [Notes]... (3)-(6), (10)...
- Taschner, Fritz [1925-]
- Thieme, Theodor Alexander Otto [1837-1907]
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- Thieme, Theodor Alexander Otto, and Richard Haensch
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- Tristán, José Fidel [1874-1932]
 1901. Un caso... Envolvamiento [sic]... 318-322 (31 December)...
- Turton, William [1762-1835]
 1801. A general... [general; new name: *Papilio julianus*]
- Vázquez, Leonila [1914-1995]
 1957. *Papilios*... *thymbraeus* form *aconopheus*]
- Wagner, Warren Herbert, Jr. [1920-2000]
 substitute Weeks, A. G., Jr., [1902]i for:
 [1900]c. *Illustrations of hitherto unfigured Lepidoptera*. [Boston, Author]. 8 pp., 4 pls. [a preprint of the first signature of his *Illustrations of diurnal Lepidoptera*, 1905, q.v.] [general; Mexico, Colombia]
- substitute Weeks, A. G., Jr., 1902j for:
 1902i. Bolivian Lepidoptera. *Entomological News* 13(10): 317 (December) [note on prepublication of his *Illustrations of diurnal Lepidoptera*, 1905, q.v.]
- Weymer, Gustav [1833-1914]
 [1914]. [Notes]...
- Ziegler, John Benjamin [1917-2000], and Tarsicio Escalante
- To *Additions and Corrections*, No. II (1998):
 Beer, Arturo Sergio [1903-1997]
 Brower, Lincoln Pierson
 1993. Deciphering... 43(2): 6-11...
- Caldas, Astrid
 1996c. Intraseasonal... 3 tabs. (14 November)...
- Caldas, Astrid, and Fernando de C. Passos
 1996. Comments... 4 tabs. (14 November)...
- To *Additions and Corrections*, No. III (1999):
 Amarillo, Angela R., 1997 - to be placed before Andrade, Miguel Gonzalo, 1997.
 Fagua, Giovanni, Angela R. Amarillo and Miguel Gonzalo Andrade
 1997. Uso de mariposas...
- Fitzgerald, Terence D., and Dessie L. A. Underwood
 1998. Trail marking...
- Osborn, Frances, and Klaus Jaffé
 1998. Chemical ecology...

BOOK NEWS

BUTTERFLY ENCYCLOPAEDIA

by Wijbren Landman
1999. Rebo Productions, Amsterdam. 272pp. (16 x 24cm). \$24.50 (cloth).
ISBN 1-84053-123-1.

This smaller butterfly compendium covers examples from all areas of the world, but also treats some macro-moths. It seems as if the book was translated into English from Dutch, since it calls all Lepidoptera "butterflies" as is often done in foreign languages where no distinction is made between moths and butterflies in the general word used (e.g., in Dutch, the word "vlinders" means either group). Each illustrated species has a brief accompanying text. Nymphalids are the largest group treated, skips the least. Besides stating that "butterflies" have 150,000+ species (which also includes moths) there are some other errors: notably, Papilionidae are called by the common name "Ornithoptera" and it is stated that "Ornithoptera" have over 900 species worldwide, when the author is actually referring to the swallowtail butterflies, with only 562 recognized species. The author also elevates most nymphalid subfamilies as full families and strangely places "Heliconiidae" between Pieridae and Lycaenidae, and separated from all other nymphalids. Under Geometridae, there also are included 2 species of Notodontidae without a separate heading for the family. Under Noctuidae, the first sentence under the correctly spelled title, has the family name misspelled as "Nocuidae." Notwithstanding the misnomer title and some errors, the book has excellent color photos, most taken from nature.

BIOLOGY OF AUSTRALIAN BUTTERFLIES

edited by R. L. Kitching, E. Scheermeyer, R. E. Jones, N. E. Pierce
1999. CSIRO, Collingwood, Victoria, Australia (Monographs on Australian Lepidoptera, 6). 395pp (18 x 25cm). \$165.00 cloth. ISBN 0-643-05027-2.
The editors of this compendium on Australian butterflies have included 21 articles by leading specialists, treating such subjects as the history of butterfly research in Australia, classification, evolution, biogeography, hostplants, butterfly communities, and ecology, together with biological papers on various species. There are 16 color plates at the end, plus numerous halftone figures throughout the book. An invaluable book for the Australian fauna and of great use to anyone working on butterflies.

FLUTTERING ENCOUNTERS IN THE AMAZING ARCHIPELAGO

by J. Pasternak
2000. Český Těšín, Czech Rep. 135pp (23 x 30cm). \$75.00 cloth. (no ISBN).
This new large-format (9 x 12 inches) color book on the butterflies and nature of Indonesia to the Solomons has almost all the 135 pages with one or more full color photographs of butterflies or natural scenes from the various islands. There are three "chapters": New Guinea, Sulawesi, and Java. About half the book pertains to New Guinea, both Papua and Irian Jaya. The main focus of the book involves the birdwing butterflies, many shown with metamorphosis sequences, but many other species are also illustrated. The text of the book is somewhat of a running commentary on the travels of the author, mixed in with discussions on the nature and butterflies of the region, plus notes on current conservation prospects (or the lack thereof), all interspersed among the illustrations. This is a unique guide to the butterfly and natural splendor of the island world of Indonesia and New Guinea.

PASSINGS

Ralph Macy, on 17 Nov 1999, in McMinnville, OR
W. Herb Wagner, Jr., on 8 Jan 2000, in Ann Arbor, MI
J. Benjamin Ziegler, on 14 Jan 2000, Summit, NJ

MEETINGS

2001 Apr 20-22 Association for Tropical Lepidoptera, Gainesville, Florida, USA
Jul 26-29 Lepidopterists' Society, Corvallis, Oregon, USA

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11 - Weiss: Pioneer Century of American Entomology, Chap. 11

THE MOTHS OF AMERICA NORTH OF MEXICO. Fasc. 7.6 *Gelechioidea. Gelechiidae (Part). Gelechiinae (Part - Chionodes)* by R. W. Hodges

1999. Wedge Ent. Found., Washington, DC. 339pp, 5 pl. (21 x 28cm). \$115.00 paper. ISBN 0-933003-10-2.

In this second part on Gelechiidae, the author presents a monographic revision of the widespread genus *Chionodes*. Species included number 187, with 115 new species described, mostly from western states; also, 6 species-groups are recognized. Many are oak feeders. There are 5 color plates and 39 pages of halftone plates illustrating genitalic details. This fascicle continues the excellent MONA treatment and illustration of species for the Nearctic north of Mexico. The most diverse areas for *Chionodes* are Arizona, California, Florida, and Texas.

BOMBICI E SFINGI D'ITALIA

(*Lepidoptera Zygaenidae*). Volume III
by Edgardo Bertaccini and Gabriele Fiumi

1999. Natura-Giuliano Russo Edit., Monterezenzo, Italy. 159pp (17 x 24cm), 13 pl. Paper. No ISBN.

This book continues the series as volume 3 for the burnet moths, Zygaenidae, but includes an extra plate (13) for added moths for the first two volumes on other Bombycoidea and related moths. The text is in Italian and covers each of the 43 species in detail for Italy, particularly listing the known Italian distribution for each species in detail. There is a distribution map for each species, and a section showing all genitalia of the Italian species. The color plates are sharp and well done, illustrating the great variety of forms of these moths.

SYSTEMATICS OF ANOPINA OBRAZTSOV

(*Lepidoptera: Tortricidae: Euliini*)
by John W. Brown and Jerry A. Powell

2000. Univ. Of California Press, Berkeley (Univ. Calif. Publ. Ent., 120). 128pp, 32 pl. (18 x 25cm). \$22.00 paper. ISBN 0-520-09835-8.

A taxonomic revision of species of the genus *Anopina*, mostly from Mexico, but also found as far north as Canada and as far south as Costa Rica. A number of species are also in the northern and western United States. Overall, 65 species are treated, with descriptions of 49 new species.

SESIIDAE OF JAPAN

by Yutaka Arita and Masumi Ikeda
2000. Mushi-sha, Tokyo, Japan (Gekkan-Mushi Books 3). 203pp (15 x 21cm). ¥2800 (ca. \$26) paper. ISBN 4-943955-33-9.

A monographic treatment of the clearwing moths of Japan, detailing 39 species. The text is only in Japanese, however. There are 64 color plates, mostly showing museum specimens, but 24 of the plates show photographs of biological features of some species taken from nature. There are text sections on the history of sesiid studies in Japan, hostplants, and a section on collecting and study methods for sesiids, in addition to the thorough main text for each species. Numbering on the color plates and for each species in the text allow the book to be used for identification by anyone.

J. Hinchliff, in Portland, OR
Benjamin H. Landing, on 28 Jun 2000, in Woodland Hills, CA
Richard Fall, on 1 Nov 2000, in Gardena, CA