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MIAMI BLUE STATUS IN FLORIDA

The Miami blue butterfly (*Hemiargus thomasi bethunebakeri* Comstock & Huntington) (or in the genus *Cyclargus*) has in recent years been in decline (Calhoun *et al.*, in press). The U.S. Fish & Wildlife Service (USFWS) received a petition for emergency listing of the Miami blue in June 2000, sent in by J. Glassberg and M. Salvato. Glassberg has already written about this petition request in *American Butterflies*, the journal of the North American Butterfly Association (NABA).

The USFWS, in their published 90 day comment notice (*Federal Register*, 67(2):280-282 (3 Jan 2002)), note that Glassberg and Salvato, in part using data from the new paper by Calhoun *et al.* (in press), stated in their petition that the Miami blue is threatened by habitat loss, fire suppression land management on public lands, mosquito control measures, and "unethical butterfly collectors."

Calhoun *et al.* (in press) note that the historical range of the subspecies in Florida was most of southern peninsular Florida, almost exclusively in coastal habitats, from the Tampa Bay area on the west coast and Volusia County on the east coast, south to the Florida Keys. Other subspecies occur in the Caribbean. Calhoun *et al.* (in press) also note that the Miami blue is easily confused with other south Florida Lycaenidae such as Lucas' blue (*Hemiargus ammon* (Lucas)) (also called the Nickerbean blue), a Cuban species recently established on Big Pine Key, and the Southern blue (*Hemiargus ceraunus antibubastis* Hübner) (also called the Florida blue), and thus, collected specimens must be studied, rather than possibly using erroneous sight records to determine which species is involved when locations are recorded. Calhoun *et al.* note that the Miami blue is rare now and known to be restricted to only a few populations in the Miami region and the Florida Keys, probably mainly due to habitat loss from development of coastal habitats and possibly from competition with Lucas' blue.

The USFWS notes in the 90-day notice that their initial finding, based on the petition submitted by Glassberg and Salvato, plus the data in the paper by Calhoun *et al.* (in press), leads to the conclusion that:

"We find that the petition presented substantial information indicating that listing this species may be warranted. We are initiating a status review to determine if listing the Miami blue butterfly is warranted."

Yet, the USFWS notice goes on to say:

"Although the Miami blue butterfly appears to be in danger of extirpation, we do not believe that the threats [as noted in the Glassberg and Salvato petition] are so great that extirpation is imminent. . . . Consequently, we determined that an emergency listing was not warranted at this time."

"If the 12-month finding determines that listing the Miami blue butterfly is warranted, then the designation of critical habitat will be addressed in the subsequent proposed rule."

Thus, the USFWS did not find the petition data sufficient to warrant an emergency listing of the Miami blue, but will begin a 12-month review of the matter. The 90-day notice is to give interested persons time to write to USFWS to comment on this finding. Once all data and comments are studied, USFWS may make a ruling for "critical habitat," or for full listing, after the 12-month review period.

One can note that, although USFWS has in the past considered "obsessive collectors" a factor for the protection of some butterflies, they did not consider overcollecting to be an important factor in the case of the decline of the Miami blue, and agreed with the findings of Calhoun *et al.* (in press) that habitat decline may be the main factor involved, since the Miami blue occurred only in coastal habitats now greatly reduced due to the continued development of Florida urban areas along the coasts, as well as the increased anti-mosquito spraying over the years with chemicals ever more lethal for non-target species like Lepidoptera.

Comments on the current USFWS finding, of not giving emergency listing of the Miami blue at this time, can be sent to:

Supervisor, South Florida Ecological Services Office, USFWS
1339 - 20th St., Vero Beach, FL 32960

J. B. HEPPNER
Gainesville, Florida

REFERENCE

Calhoun, J. V., J. R. Slotten, and M. H. Salvato

In press. The rise and fall of tropical blues in Florida: *Cyclargus ammon* and *Cyclargus thomasi bethunebakeri* (Lepidoptera: Lycaenidae). *Holarctic Lepid.* (Gainesville), 7: in press.

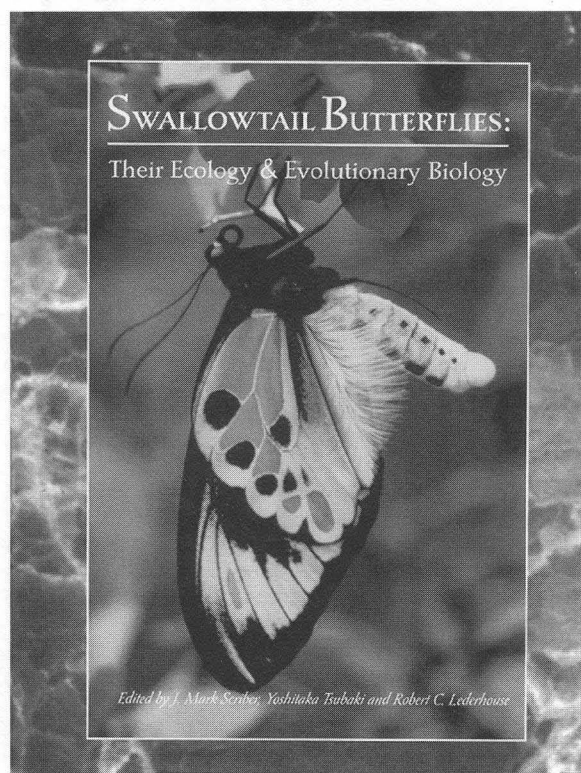
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J. M. Scriber, Y. Tsubaki, and R. C. Lederhouse, eds.

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This compendium of papers by leading experts, from a butterfly conference at the International Congress of Ecology, in Yokohama, Japan, covers a wide range of biological subjects concerning swallowtail butterflies, with a focus on the most current developments worldwide. Subjects include chemical ecology, population dynamics, mimicry, mating behavior, genetics, evolution, and conservation. The 35 chapters are authored by a total of 42 experts in the various subjects treated. The work includes 32 pages of color plates, plus a bibliography of over 2,000 references. All faunal regions are covered.

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Chap. 9-12: papers by Hirose, Takagi, Watanabe, West, Yamasaki

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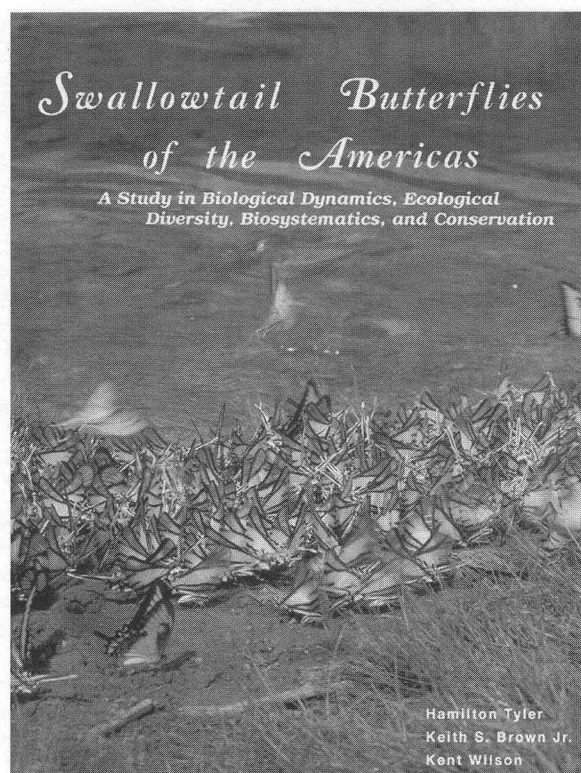
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Ecological Genetics and Evolution

Chap. 18-27: papers by Ae, Bossart, Brown, Clarke, Dowell, Eliazar, Emmel, Feeny, Hagen, Hazel, Lederhouse, Scriber, Sperling, Suomalainen, Thompson, Weintraub

Conservation and Diversity Preservation

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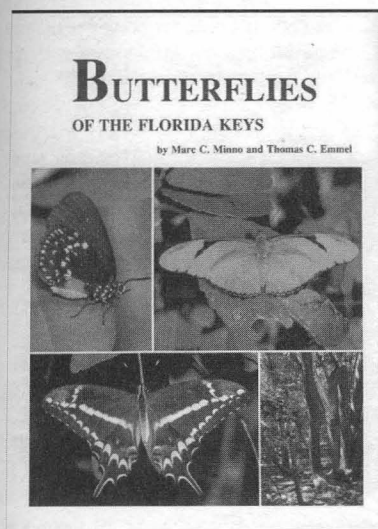
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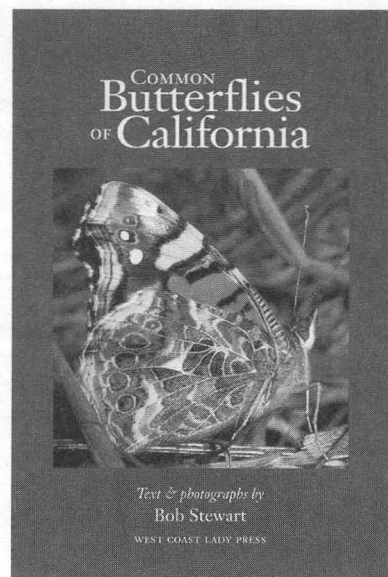
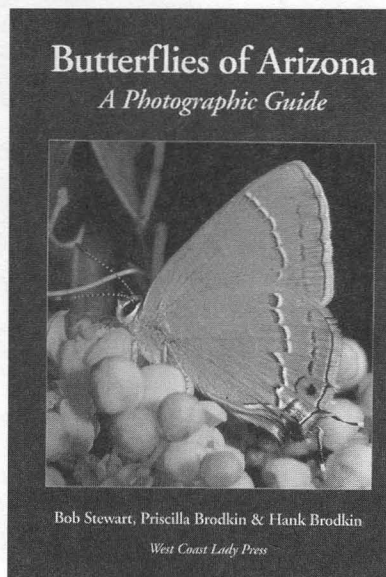
Treats 331 species found in southern Arizona, all in full color.

COMMON BUTTERFLIES OF CALIFORNIA

by B. Stewart

1998. 258pp, paper (spiral bound). \$24.00

Treats most species encountered in California, all in full color.



BOOK NEWS

THE GEOMETRID MOTHS OF EUROPE. Vol. 1

by Axel Hausmann

2001. Apollo Books, Stenstrup. 282pp (8 pl.) (17 x 24cm). DK 490 (ca. \$65) cloth. ISBN 87-88757-35-8 (Series 87-88757-54-4).

This excellent new series proposes to document the entire geometrid fauna for Europe (ca. 900 spp.), as far east as the Ural Mountains of Russia, and also including Turkey and parts of North Africa. This first volume has quite an extensive introductory section on moth biology and morphology, particularly in relation to Geometridae. The main text treats 42 species of the more primitive geometrids in Europe, with synonymy, diagnosis, distribution and biological notes for each species. The text is in English and the classification follows the more prolific use of subfamilies and tribes prevalent in European classifications of the family. A detailed range map is included for each species, plus occasional photographs of larvae (but in black and white) or adult identification details. The 8 color plates illustrate all the adults in color, plus some photographs from nature on plate 8. Genitalia for all species are also illustrated. There is a checklist, extensive bibliography, and an index.

THE LEPIDOPTERA OF WAYNE COUNTY, OHIO

by Roy W. Rings and Roger A. Downer

2001. Ohio Agric. Res. & Development Ctr., Wooster. 162pp (21 x 28cm) paper (price?). ISBN (none).

This compendium for Wayne County, Ohio, provides a catalog of the Lepidoptera recorded to date in this area of northeastern Ohio. The catalog gives records for 901 species from 40 families of moths and butterflies. The species records are the result of collections made during the past few years in Wayne County, plus available Ohio records in other collections in the state. Notable lapses of records, however, include Ohio specimens in such large collections as the Smithsonian Institution (USNM), American Museum of Natural History (AMNH), Carnegie Museum (CMNH), and the Florida State Collection of Arthropods (FSCA). The records for microlepidoptera are especially deficient for what the true fauna must be in Wayne County. The catalog is otherwise a well-documented summary of the local Lepidoptera fauna for this region of Ohio.

SCHMETTERLINGE ERKENNEN & BESTIMMEN

by Heiko Bellmann

2001. Mosaik Verlag, Munich. 191pp (12 x 18cm). DM 24.90 (ca. \$11.25) paper (Steinbach's Naturführer). ISBN 3-576-11457-2.

This new field guide for Germany includes 422 color photographs from nature and 150 color paintings of butterflies and moths, treating a total of 279 species. The first half of the book covers moths, including some of the micro-moth families, followed by the butterflies in the last half of the book. Each species has a micro-print text and often also a painted figure of a museum specimen or larva of the species. The book is useful as a handy field guide to common species encountered in central Europe. Text is entirely in German, except for the Latin names of species. One unusual feature of this guide is a large fold-out plate giving an overview of color figures of typical moths and butterflies as a kind of quick identification guide: this has limited usefulness but will allow the neophyte to place many specimens close to the correct family.

BUTTERFLIES OF ARIZONA: A PHOTOGRAPHIC GUIDE

by B. Stewart, P. Brodtkin, and H. Brodtkin

2001. West Coast Lady Pr., 645 Elizabeth Dr., Arcata, CA 95521. 415pp, paper (15 x 23cm), \$24.00. ISBN 0-9663072-1-6.

This new book for butterfly watchers illustrates all known species from Arizona with color photographs of live adults (also some larvae). A back

section also illustrates a number of Mexican species that have been reported from the Arizona border area. A total of 553 photographs are included, for 331 species treated. Many of the photos are excellent and all appear to be from live individuals (not staged using pinched specimens set on flowers). There is a basic text for each species giving salient data on distribution, identification marks, size, habitat and hosts used, and flight periods. Overall an excellent guide, although perhaps a bit too heavy to use in the field directly. This new guide goes with the previous one from 1998 authored by Bob Stewart, entitled *Common Butterflies of California*. The 1998 book appears not to have been advertised, at least not outside of California. Both books are available directly from the author (\$24 each). The California book has some amazing photographs of larvae, including one of a *Satyrium californicum* larva being tended by ants. The California book includes most species found in the state, except for some very restricted species (e.g., the Hermes copper (*Lycaena hermes*), which is restricted to a few areas near San Diego and northern Baja California).

THE SESIIDAE OF EUROPE

by Z. Laštůvka and A. Laštůvka

2001. Apollo Books, Stenstrup, Denmark. 245pp (9 pl.), cloth (17 x 24cm), DKK 370 (ca. US\$ 45). ISBN 87-88757-52-8.

Following the format of the first part of *Geometrid Moths of Europe*, this new book on Sesiidae expands on the authors' previous studies of European clearwing moths and also revised their previous European treatment that was quickly out of print: *Illustrated Key to European Sesiidae*. One of the authors also contributed to the more expansive 1999 treatment of Palearctic Sesiidae from the series, *Handbook of Palearctic Macrolepidoptera*. The current book treats 107 species occurring in western Europe (including western Russia and Turkey). All species have the genitalia illustrated with line drawings. The 9 color plates are well done (all adults enlarged 1.8x), but the resultant color printing appears to have involved somewhat inferior scanning of the images since many do not appear very sharp. All conspicuous species can nonetheless be identified from the plates, while the more cryptic species will require comparison of genitalic morphology in any case. The text for each species provides the salient biological information and diagnostic characters. The front of the book has keys to species. There are no new species described, but several new synonymies and new combinations are noted. The book is a welcome addition to the already extensive Sesiidae literature for Europe.

AN ANNOTATED SYSTEMATIC AND SYNONYMIC CHECKLIST OF THE NOCTUIDAE OF BULGARIA

by Stoyan V. Beshkov

2000. U. Eitschberger, Markt-leuthen (*Neue Entomologische Nachrichten*, Band 49). 300pp (16 pl., 2 color pl.) (17 x 24cm). DM 158 (ca. \$72) paper. ISSN 0722-3773.

The author presents an up-to-date catalog of the noctuid moths known from Bulgaria, carefully verified from all published records and available museum specimens. There is an interesting introduction on the history of moth studies in Bulgaria, particularly for the Noctuidae. The noctuid fauna comprises 694 species to date. The plates illustrate many of the species, plus about 20 species are on the 2 color plates; 150 genitalia figures are also included. There is an extensive bibliography of all papers dealing with this fauna, something that provides a literature basis for any Lepidoptera studies of the Bulgarian fauna. The journal editor, Dr. Ulf Eitschberger, should be acknowledged for his continued help in publishing such works.

MEETINGS

2002 Apr 5-7
Jun 1-6
Jun 13-16

Association for Tropical Lepidoptera, Gainesville, Florida, USA
Societas Europaea Lepidopterologica, Korsør, Denmark
Lepidopterists' Society, Charleston, South Carolina, USA

CONTENTS

1 - Johnson: Monarch Watch 2001
3 - Letters
6 - Monarch Watch 2001 (cont.)
7 - Book Review

8 - Brower: Canary in the Cornfield, the Monarch and the Bt Corn Controversy
13 - New Literature - 2000
57 - Miami Blue Status in Florida
60 - Book News